Journal of the American College of Cardiology
Vol. 44, No. 12, 2004
© 2004 by the American College of Cardiology Foundation
ISSN 0735-1097/04/$30.00
Published by Elsevier Inc.

Author Index: Volume 44

Abbott MC, 1386
Abdelaah A, 594
Abedin M, 1977
Abergel E, 144
Abidov A, 212, 1062
Abolmaali ND, 1690
Abraham T, 1664
Abraham WT, 1354, 1550
Abuzahra M, 2091
Accola KA, 1439
Achilli A, 2096
Achilli P, 2096
Ackerman MJ, 602, 1903
ACTION Investigators, 1363
Adams KF Jr, 959
Adamson PB, 1354, 1675
Adatia I, 1501
Addonizio LJ, 2065
Adler DS, 1528
AFFIRM Investigators, 1276, 2419
Agbulut O, 458
Agmon Y, 1018
Agostoni P, 349
Ahmad B, 1172
Ahmed A, 2254
Ahsan C, 541
Aiba T, 117
Airoldi F, 762, 967
Aizawa Y, 117
Ajani AE, 1386
Akasu T, 2239
Akhan H, 469
Akhter S, 939
Akiyama T, 2419
Akopnik I, 569
Al Attar N, 458
Albiero R, 2417
Alderman EL, 766
Alegría E, 1557
Alexopoulos N, 1911
Alfonso F, 520, 2416
ALLIANCE Investigators, 1772
Allison TG, 988
Al-Mamari A, 2375
Almeida de Oliveira S, 1439
Alonso-Orgaz S, 1578
Alwi M, 438
Amado LC, 2383
Amar D, 669, 1248
Ambrus CM, 939
Ambrus JL, 939
Ameratunga R, 2413
Ammash NM, 174
Ammirati F, 1053
Amsterdam EA, 1526
Andelfinger G, 138
Anderson JR, 2185
Anderson RJ, 2149
Anderson TJ, 778
Andrees M, 1124
Andren B, 1933
Andrews ML, 1481
Andrié R, 936
Andronache M, 594
Angiolillo DJ, 520
Anner H, 569
Ansalone G, 1
Anselmi M, 349
Anson BD, 1283
Antman EM, 335, 671, 783, 980
Antonini E, 1601
Anzai T, 1510
Aoyagi S, 2239
Aoyama N, 1292
Apple S, 53
APPROACH Investigators, 1587
Arai AE, 561
Araoz PA, 1533, 1937
Aretz HT, 972
Arimura T, 2192
Armstrong PW, 38
Arness MK, 201
Arnold M, 750
Aroca A, 1641
Aronson D, 2003
Arsdell GV, 1501
Arsenault A, 1473
Arshad A, 1261, 1265
Assanelli E, 1780
Assmus B, 1690
Athanasuleas CL, 1439
Atwood JE, 201
Auer J, 938
Aukrust P, 369, 1970
Aurigemma GP, 1856
Avizohar O, 2003
Awan I, 1945
Aymong E, 305, 1215
Aymong ED, 547, 1200, 1393
Azarbal B, 423

Bach DS, 668
Bach PB, 1248
Backscheider AG, 846
Bae SW, 2192
Baffour R, 897
Baggs RB, 1454
Bahl A, 2033, 2315
Bailey K, 1664
Baim DS, 1210, 1801
Bakhai A, 1792
Balaji S, 1095
Baldereschi G, 1601
Baldi JC, 892, 2413
Balestrieri P, 762
Ball SG, 2173
Ballantyne CM, 1436
Ballman KV, 2411
Bank AJ, 1340
Banner NR, 1254
Bañuelos C, 520
Baralle FE, 1283
Baralle M, 1283
Barbieri D, 14
Barkhausen J, 1224
Barnes B, 199
Barrell PD, 1276
Barrett-Connor E, 1593
Barrington W, 855
Bartel T, 804
Bartha P, 2003
Barton PJR, 1254
Bartorelli AL, 1780
Bartunek J, 2349
Barzilai B, 2258
Baschetti R, 1934
Bashore T, 766
Bauer A, 95
Baumann G, 829
Bauriedel G, 936
Bax JJ, 1, 937, 1834, 1877
Bazaz R, 1619
Beatch GN, 2355
Beck T, 1230
Becker LC, 611
Becker R, 95
Beckmann K, 99
Beevers DG, 415
Behar S, 327
Beinart R, 327
Beller S, 1124
Belohlavek M, 1664
Beltrame JF, 57
Benedictis MLD, 349
Benjamin EJ, 168
Benson DW, 138, 1283
Ben-Yehuda O, 1141
Berent R, 938
Berezin RH, 1792, 1801
Berger P, 1819
Berger PB, 1786, 2133
Berjón J, 1557
Berlatzky Y, 569
Berman DS, 212, 423, 923, 1062
Bers DM, 837
Bertram H, 1712
Bérubé L, 433
Berzingi CO, 53
Best PJM, 1786
Betge S, 2301
Betriu A, 1194
Bett JHN, 1363
Beurrier D, 594
Beyersdorf F, 1439
Bhalla MA, 1047, 1328
Bhalla V, 1047, 1328
Bhargava M, 409
Bhat AH, 1459
Bhatt DL, 50
Biamino G, 1966
Bibbins-Domingo K, 1593
Biffi A, 1053
Biggart S, 2089
Billinger K, 1714
Billups D, 1340
Bink-Boelkens MTE, 1095
Biondi-Zoccai GGL, 349
Birgelen C, 804
Birnbaum Y, 211, 1343
Bisoendial RJ, 1429
Bissery A, 458
Blackshear JL, 759
Blanchard DG, 126, 1141
Blank T, 2247
Blann AD, 415
Bleeker GB, 1834
Bloch KD, 793
Bloomfield P, 667
Blumenthal JA, 472
Bocher M, 569
Bodalski R, 1700
Boecker W, 2231
Boekstegers P, 1124
Boersma E, 1834
Böger RH, 362
Böhm M, 829
Bohn D, 1501
Boixel C, 1918
Bollerslev J, 1970
Bollwein H, 2133
Bonan R, 778
Bonetti PO, 2137
Bonow RO, 1883
Bonso A, 864
Bordachar P, 2157
Borer JS, 406, 2285
Borsani P, 458
Bouma BE, 972
Bounds CA, 1898
Boura JA, 1400
Bourassa MG, 766
Bowles N, 1139
Boyd SY, 201
Boyko V, 327
Branzi A, 1570
Brass L, 1713
Braunwald E, 335, 564, 783, 799, 980, 1988
Breithardt OA, 1, 68
Brembilla-Perrot B, 594
Bret M, 1641
Breuer C, 68
Breuer S, 44
Brewer HB Jr, 720
Bricknell K, 878
Briganti A, 1339
Briguori C, 762, 967
Brilakis ES, 1819
Brindis R, 933
Britten MB, 1690
Brockwell S, 579
Brodsky M, 2419
Brook GJ, 2003
Brown A, 2408
Brown PA, 133
Brownlie A, 1429
Bruch C, 804
Brueckner A, 1230
Bruneval P, 458
Bräunlich S, 1966
Buch J, 1996
Buckberg GD, 1439
Bui AB, 2087
Bundens WP, 618
Bünte C, 362
Burgstahler C, 1230
Burke M, 2033
Burkhardt JD, 409
Burkhoff D, 1543
Buszman P, 1363
Butchart EG, 1143

Cahn SC, 2254
Califf RM, 1957
Campbell CL, 201
Campbell PG, 287
Campodonico J, 1780
Candy G, 1825
Cannon CP, 564, 783, 799, 980
Cano M, 1036
Canos D, 1386
Caños DA, 53
Canter CE, 391
Capderou A, 1918
Carabello B, 2221
Carabello BA, 376
Carbucicchio C, 869
Carlino M, 967
Carlquist J, 1283
Carney RM, 472
Carrasco C, 1578
Carrel TP, 1467
Carroll D, 473
Carrozza JP Jr, 1210
Caruthers SD, 133
Caslake MJ, 2375
Caspi A, 2142
Casscells SW, 1945
Cassimatis DC, 201
Castelli A, 762
Cavallini MC, 1601
Cavendish JJ, 1141
Cercek B, 1311
Cervi V, 1570
Chaitman BR, 313
Chaloupecký V, 1927
Chan RC, 2202
Chandler ML, 1276
Chandra-Strobos N, 1933
Chang M-S, 1080
Channon KM, 2056
Chatellier G, 144
Chaudhary KW, 837
Chauhan M, 1210
Chekuri K, 564
Chen H-L, 1792
Chen P-S, 1550
Chen S-A, 1080
Chen S-C, 391
Chen Y, 904
Chiang A, 1047
Chieffo A, 967
Chien KR, 2192
Chiladakis JA, 859
Child JS, 181
Chiostri M, 1891
Chiu A, 1047
Chiurlia E, 1636
Choi BY, 2192
Chomas J, 1036
Chomienne C, 458
Choo KK, 438
Choudhury R, 2056
Christianson TJH, 1018
Christman KL, 654
Chronos NA, 1373
Chrysohoou C, 152
Chu JW, 78
Chugh SK, 778
Chugh SS, 1268
Chyu K-Y, 1311
Ciardo R, 1053
Cioni E, 1636
Clark LT, 720
Claudon O, 594
Claussen CD, 1230
Cleeman JI, 720
Cleland SJ, 2375
Clementy J, 2157
Clopton P, 1047, 1328
Cohen DA, 547
Cohen DJ, 1210, 1792, 1801
Cohen GA, 1497
Cohen I, 423, 1062
Cohen MS, 184

Cohen MV, 1103
Coin B, 1311
Colan SD, 391, 1648
Coleman L, 1363
Colivicchi F, 1053
Coller BS, 1570
Collins LC, 201
Colombo A, 762, 967, 1368, 2417
Coman J, 72
Connolly DL, 2094
Connolly HM, 174
Consodine RV, 670
Conti JB, 1265
Cooper LT, 2411
Cooper-DeHoff RM, 509
Coordinating Committee of the National Cholesterol Education Program, 720
Copeland JG, 2149
Corey D, 168
Corno AF, 1087
Corral JM, 520
Corvaja N, 967
Costantini CO, 305
Cotter G, 340
Coutu B, 2355
Covalt JL, 1018
Cox DA, 305, 547, 1215
CRAFT Investigators, 2355
Cranny G, 2173
Creager MA, 941
Cresci S, 165
Cripe L, 138
Criqui MH, 618, 1009
Croce G, 1529
Crook AM, 1254
Cruz FES, 1626
Csanády M, 1339
Cui L, 1103
Cummings J, 409
Curtis AB, 1265, 1550
Curtis L, 192
Curtis MJ, 778
Cutlip DE, 1210, 1801
Czajkowski SM, 472

Daemen J, 997
Daemen MJAP, 1113
Dahlbeck J, 923
Dahm JB, 1420
Dallas Heart Study Investigators, 1011
Damås JK, 369
Dambrink J-HE, 1187
Damiano R, 1248
Dangas G, 733, 1200, 1393
Danias PG, 1867
Daniel P, 1918
Daniels O, 1095
Das UN, 152
Dassen WRM, 1113
Davidson D, 472
Davies A, 287
Davies CH, 1459
d'Avila A, 2202
Dávila-Román V, 2258
Davis BR, 1786
Daya M, 1268
De Alfieri W, 1601
de Andrés R, 1578
de Belder MA, 287
de Boer M-J, 1187
De Bruyne B, 2349
de Feyter P, 1363
de Feyter PJ, 1238
de Groot E, 1429
de Lemos JA, 564, 1812, 1988
De Metrio M, 1780
de Roos A, 1877
de Scheerder I, 528
De Windt LJ, 1113
Dearani JA, 2044, 2329
Defreitas G, 2221
Dehmer JJ, 2095
DeJoseph D, 972
del Soldato P, 635
deLemos JA, 335
DeMaria AN, 126, 467, 931, 1337, 1707, 1709, 2080, 2406
Demer LL, 1977
den Heijer P, 1363
Denenberg JO, 618
Dennish GW III, 1276
Deo R, 1812
Department of Defense Smallpox Vaccination Clinical Evaluation Team, 201
Derejko P, 1700
Deroubaix E, 1918
Derumeaux G, 1
Desai A, 72
Desai MY, 1164, 1988
Desideri G, 1529
DeSmet W, 1194
Di Bari M, 1601
Di Donato M, 1439
Di Marco F, 2339
Di Mario C, 1368, 2417
Di Sciascio G, 1368
DiBattiste PM, 564, 799
Dibbets P, 1877
Dickinson G, 2355
Dickstein K, 1970
Diederich K-W, 1966
DiMario C, 778
Dimmeler S, 44, 464, 1690
Dinanian S, 1918
Dinges DF, 1530
Dirschinger J, 2073, 2133
Doevendans PA, 1113
Dogra V, 1268
Dohi K, 1619
Dohke T, 2252
Dokainish H, 2091
Donnelly J, 1261
Dor V, 1439
Dore A, 433
Dorian P, 99
Dörr M, 829
Dorszewski A, 869
Dotzer F, 2133
Doughty RN, 469, 892, 2413
Douglas P, 1957
Douglas PS, 150, 1137
Dove JT, 2408
Downey JM, 1103
Drexler H, 362
Dries DL, 827
Dube MP, 1429
Ducardonnet A, 144
Ducharme A, 159
Dudley SC Jr, 846
Dullaart RPF, 1429
Dumas P, 1368
Dupuis J, 1473
Dávila-Román VG, 1467

Eagle K, 933
Eagle KA, 576, 1146
Eber B, 938
Echt D, 1454
Eckart RE, 201
Edelman SV, 1047
Edwards WD, 1652, 2329
Egashira K, 661
Eggebrecht H, 804
Ehlert F, 1261
Elayda M, 2416
Eldar M, 327
Elhendy A, 2185
Elia PP, 762
Elkington AG, 554
Ellenbogen KA, 1550, 1898
Ellinor PT, 2326
Elliott PM, 398, 2033, 2315
Ellis E, 1675
Ellis N, 2149
Ellison SR, 1328
Elmfeldt D, 1175
Elsaesser E, 2247
Empen K, 1420
Endresen K, 369
Englberger L, 1467
Engler RJM, 201
Epshteyn VA, 1047
Epstein AE, 1550, 2166
Epstein LM, 2249
Epstein SE, 897
Erbel R, 804
Erdman RAM, 997
Erickson S, 1501
Erne P, 1415
Ernst NMSKJ, 1187
Escaned J, 520
Escribano Burgos M, 1578
Esler MD, 2008
Essop R, 1825
Esteban MTT, 398
Etheridge SP, 1339
Executive Council of the Heart Failure Society of America, 1361
Exil V, 391
Ezekowitz J, 1587
Ezrin AM, 2355
Ezzeddine R, 855

Faddis M, 72
Fagundes M, 1626
Fahy M, 1200, 1393
Fajadet J, 1368
Falk RH, 1567
Fang Q, 654
Fantidis P, 520
Faraggi D, 2142
Farré J, 1578
Farsang C, 1175
Fauchier L, 2253
Fazel S, 1478
Fedullo PF, 126
Fehr T, 1763
Feinberg MS, 327
Feiring AJ, 2307
Feld G, 2419
Feldman AM, 2019
Felix SB, 829
Felker GM, 959
Ferguson TB Jr, 1241
Fernandes SM, 1648
Fernández C, 520
Fernández-Ortiz A, 520
Fernando F, 1053
Ferrari F, 14
Ferrari R, 14
Ferrell WR, 2375
Ferrero S, 669
Ferri C, 1529
Ferro A, 1071
Ferrua S, 810
Feyer A, 1230
Fichtlscherer S, 44
Figulla HR, 2301
Filusch A, 887
Finch S, 2008
Fincke R, 340
Finsterer J, 1139
Fiorentini C, 2339
Fiorucci S, 635
Fishbein MC, 211
Fisher E, 541
Fleg JL, 611
Focaccio A, 762
Fok HH, 654
Folliguet T, 1918
Fontan F, 1439
Foote RS, 1980
Force TL, 2231
Fortin D, 766
Fournier A, 2097
Fowler MB, 78
Franchi F, 1891
Francis CW, 1454
Francis GS, 1025, 1841
Francis JM, 2056
Frankenbergerova K, 887
Frasure-Smith N, 472
Frederick PD, 783
Freedland KE, 472
Freedman SB, 57
French JK, 2413
Fresco C, 38
Freudeiberger R, 2254
Fridez P, 1087
Friedman E, 2255
Friedman JD, 923, 1062
Friedman PA, 1550
Frigstad S, 1030
Frøland SS, 369
Frommelt PC, 2111
Fronek A, 618
Frostfeldt G, 1933
Fu Y, 38
Fujii M, 2252
Fuke S, 644
Fukuda D, 936
Furian A, 1713
Furnary AP, 384
Fuster V, 2099, 2293
Fye WB, 215
Fynn SP, 109

Gaasch WH, 1856
Galantowicz ME, 2065
Galimberti P, 2096
Gallego P, 1641
Gamble GD, 892
Gambone L, 1386
Gamst AC, 618
Gantt DS, 2095
Ganz LI, 855
Gao G, 384
Garcia E, 305, 547, 1215
García-Méndez A, 1578
Gardetto N, 1047
Gardner G, 1215
Garratt KN, 357
Garrigue MJSS, 937
Garrigue S, 2157
Gasparini M, 2096
Gattis WA, 959
Gaughan JP, 837
Gauvreau K, 1648
Ge L, 967
Gebauer RA, 1927
Gensini GF, 1891
Gentlesk PJ, 1481
Gerber BL, 2383
Gerds-Li J-H, 869
Gerken LM, 1626
Gerlach J, 1062
Germano G, 212, 1062
Gersh BJ, 305, 602, 1903, 2044
Gerstenblith G, 611
Gevorkian N, 2087
Ghadanfar M, 1996
Ghali JK, 2097
Ghali WA, 1587
Ghofrani HA, 1488
Ghostine S, 458
Gianfranco B, 1712
Gibbons RJ, 1533, 1937
Gibson CM, 335, 564, 783, 799, 980
Gill JMR, 2375
Gillam LD, 2111
Gimeno JR, 398
Gisolf J, 588
Giugliano RP, 783, 980
Glassman AH, 472
Glatter KA, 864
Glogar HD, 528, 1363
Godang K, 1970
Goedhart DM, 2362
Goesmann D, 2414
Goethals M, 2349
Gohlke-Bärwolf C, 1143
Goldberger JJ, 1883
Goldman S, 2149
Goldschmidt-Clermont PJ, 1957
Goldstein M, 82
Goldstein RE, 1481
Goldstone J, 941
Golia B, 762
Golomb BA, 1009
Gómez J, 1578
Gonzalez A, 1641
Goodhart D, 778
Goodman SG, 38
Gorcsan J III, 1619, 2111
Gori T, 632
Gosselink ATM, 1187
Goto S, 316
Gottlieb SS, 2255
Grabenstein JD, 201
Grady D, 1593
Graham R, 287
Granett JR, 1786
Granger CB, 38
Granizo JJ, 1578
Gransar H, 923
Grant S, 2355
Gray JC, 287
Grazette LP, 2231

Grazi M, 1780
Grech ED, 287
Green G, 1328
Greene HL, 1276, 2419
Greenwood JP, 2173
Grégoire J, 1473
Griffin JJ, 305, 547
Grimminger F, 1488
Grines CL, 297, 305, 547, 1215, 1400, 1786
Gring CN, 1841
Grogan M, 174
Gronda E, 2096
Gropler RJ, 2258
Gross M-L, 887
Grube E, 1363, 1368
Grundy SM, 720, 1011
Grunkemeier GL, 384
Guagliumi G, 305, 547, 1215, 1368
Guardigli G, 14
Guazzi M, 2339
Guazzi MD, 2339
Gubner R, 2094
Guédès A, 433
Guerra R, 1011
Guertin M-C, 159
Gugliotta F, 1071
Gullestad L, 369, 1970
Gulletta S, 1071
Gunderson BD, 1898
Gunson K, 1268
Gupta R, 1343
Gupta SN, 2383
Guss D, 1328
Guyton RA, 1146

Habib RH, 2415
Hachamovitch R, 423, 923, 1062
Hafner H-P, 1415
Hagége A, 458
Hagege AA, 144
Haigney MC, 1301, 1481
Haïssaguerre M, 1700, 2157
Hajjar RJ, 2231
Halkin A, 105, 547, 1200
Hall C, 1988
Hall JA, 287
Halperin HR, 2214
Halpern EF, 972
Halvorsen B, 369
Hamilos MI, 2027
Hammett CJK, 2413
Hamon M, 349
Han KH, 2192
Hanekom L, 878
Hanley FL, 1497
Hanlon SU, 1301
Hanrath P, 68
Hansen A, 887
Harcombe AA, 287
Hardebeck CJ, 211
Haredza P, 1488
Harel F, 1473
Harjai KJ, 1400
Harvill JL, 1265
Hashimoto I, 1459
Hatem SN, 1918
Hauptmann KE, 1368
Hausmann H, 2414
Havranek EP, 2333
Hawkins JA, 188
Hayashi T, 2192
Hayden MR, 1429
Hayes SW, 423, 923, 1062
Hedayiti A, 1311
Heeneman S, 1113
Heeringa J, 2117
Heeschen C, 44
Heggen V, 846
Heggunje PS, 1400
Hein S, 1609
Helbing WA, 1095
Hellenbrand W, 1713
Hellenbrand WE, 513
Helske S, 1859
Henderson W, 2149
Henrikson CA, 1933
Henry RR, 1047
Hermann H, 1713
Hernandez AF, 1446
Hernández-Antolín R, 520
Herweg B, 1261
Hess OM, 2054
Hetzer R, 2414
Heusch G, 1111
Heuschmid M, 1230
Hickey C, 1501
Higano ST, 2137
Higgins CB, 2247
Hijazi Z, 513
Hikichi Y, 1408
Hindricks G, 869
Hinkel R, 1124
Hirashiki A, 209
Hirayama A, 28
Hirsch GA, 561
Hirshfeld JW Jr, 215, 2259
Hisamatsu Y, 914
Ho KKL, 1210, 1801
Hobbs HH, 1011
Hochenberg M, 105
Hocher B, 2414
Hochman JS, 340
Hocini M, 1700
Hod H, 327
Hoeper K, 362
Hoffmann R, 1368
Hofman A, 1175
Hofmann W-K, 1690
Hognestad A, 1970
Hogue CW Jr, 1248
Hohda S, 2192
Hohnloser SH, 99, 1550
Hollander JE, 1328
Holmes DR Jr, 357, 1786, 2137, 2329
Holmvang G, 2202
Holtby H, 1501
Holubkov R, 1467, 2019
Hongo RH, 864
Honold J, 1690
Hoorntje JCA, 1187
Hori H, 2192
Hori M, 28
Horie M, 117, 451, 2252
Horowitz JD, 57
Horvath K, 1714
Horzewski M, 1454
Hoshijima M, 2192
Hoskote A, 1501
Houghtaling C, 2202
Houriez P, 594
Houser SL, 972
Houser SR, 837
Hovingh GK, 1429
Hsu DT, 513, 2065
Huber K, 1932
Hučín B, 1927
Huikuri HV, 1529
Hummel A, 829
Humphries KH, 1587
Hunninghake DB, 720, 1772
Hunold P, 1224
Hyson DA, 1526

Iacobellis G, 2257
Iakovou I, 967, 1393
Iftimia N, 972
Iida H, 300
Ilias N, 1268
Illovsky M, 1481
Imai K, 28
Imaizumi T, 661
Imoto Y, 1408
Inagaki N, 2192
Inglessis I, 793
Innocenti F, 1601
Inomata T, 1292
Inoue N, 914
Inoue T, 1408
Insel PA, 2016
Ioakeimidis N, 1911
Ioannidis JPA, 1867
Ip JH, 2355
Iriarte JA, 1557
ISAR-REACT Study Investigators, 2133
Ishida H, 316
Ishikawa C, 2252
Ishimatsu M, 2239
Ishiyama M, 2221
Ish-Shalom M, 105
Itescu S, 1679
Itoh-Satoh M, 2192
Izumi T, 1292

Jabs A, 936
Jackman D, 1792
Jackson M, 206
Jacob RF, 1996
Jacobsen SJ, 988
Jaeger MA, 602
Jaffe AS, 472, 1533
Jain T, 1011
Jaïs P, 1700, 2157
Jamali AH, 78
Jamieson SW, 126, 389
Jamieson WRE, 1467
Jamshidi P, 1415
Janardhanan R, 554
Jang I-K, 972
Janosko K, 2019
Janoušek J, 1927
January CT, 1283
Jarai R, 1932, 1932
Jayakumar KA, 2065
Jeffers B, 1996
Jelic S, 497
Jemtel THL, 497
Jemtland R, 1970
Jenkins C, 878
Jenkins KJ, 1648
Jeremias A, 1210
Jernberg T, 1933
Jesse R, 1328
Jimenez S, 1139
John AS, 554
John BT, 1268
Johnson BD, 1819
Johnson R, 1363
Jollis JG, 192, 1446
Jones M, 1459
Jones PG, 2333
Jones RC, 1025
Jordaens LJLM, 2362
Jorgensen J, 2091
Josephson ME, 1215
Juelke P, 1415
Jui J, 1268
Juillière Y, 594
Jukema JW, 1877
Justo D, 105
Jux C, 1712

Kühl H, 1224
Kachope J, 1825
Kadish AH, 1883
Kai H, 661
Kaiser DR, 1340
Kalman JM, 109
Kalogeropoulos A, 859
Kamakura S, 117
Kamath S, 415
Kammeraad JAE, 1095
Kanaly T, 1675
Kandavello G, 438
Kandzari DE, 2133
Kang X, 923
Kanter RJ, 1550
Kanzaki H, 1619
Kapadia SR, 775
Kappagoda CT, 1526
Karadaş B, 1488
Karemaker JM, 588
Kasikcioglu E, 469
Kass DA, 611
Kastelein JJP, 1429
Kastrati A, 2073, 2133
Katus H, 887
Katus HA, 95
Kauffman CR, 972
Kaufman ES, 1276
Kaufmann PG, 472
Kaul S, 1311
Kautzner J, 1927
Kawarabayashi T, 300, 936
Kay GN, 2166
Kaye DM, 2008
Kazanegra R, 1047
Keane JF, 446
Keaney JF Jr, 168
Keating MT, 1283
Keller P-F, 159
Kenessey A, 837
Kennard ED, 1467
Kent KM, 1386, 2087
Kepski R, 1700
Keramati S, 1141
Kern KB, 2214
Kerner A, 2003
Khairy P, 1648
Khandheria B, 1664
Khandheria BK, 1018
Khera A, 1812
Kichuk-Chrisant MR, 2065
Kiemeneij F, 20
Kilicaslan F, 409
Killian JM, 988
Kimura A, 2192
Kimura BJ, 126
Kindermann W, 470
Kingma JH, 2117
Kini AS, 541
Kinjo K, 28
Kinnunen PM, 82
Kip KE, 766
Kipshidze N, 210, 733
Kipshidze NN, 210
Kirkwood I, 2368
Kirtane AJ, 980
Kistler PM, 109
Kiyomoto H, 904
Kjekshus J, 1970
Klausen IC, 2315
Kleiman NS, 1194
Klein GJ, 88
Klein I, 837
Klein M, 1763
Kloner RA, 276
Klootwijk APJ, 2362
Knebel F, 829
Knight BP, 72
Knobler H, 2142
Knöll R, 2192
Knowlton KU, 1298
Knudtson ML, 1587
Ko JM, 1847
Kobal S, 1454
Kobza R, 869
Kodama I, 914
Kodama K, 28
Koga Y, 2192
Kohno M, 644, 904
Kohno T, 1510
Koitabashi T, 1292
Kojda G, 624, 1320
Kompa A, 1679
Kondo I, 644
Kone N, 1825
Kong DF, 1809
König I, 624
Konorza T, 1224
Konstam MA, 1361
Kontos MC, 1934
Kopp AF, 1230
Koppel J, 778
Koren MJ, 1772
Kors JA, 2117
Kosmopoulou F, 1911
Kostin S, 1609
Kostis JB, 1172
Kotani J-i, 53, 2087
Kottkamp H, 869
Kouchoukos NT, 1439
Kovanen PT, 1859
Kowal RC, 827
Kowalski M, 1261
Kowey P, 99
Kraaijenhagen RA, 1144
Krack A, 2301
Kraitchman DL, 2383
Kramer CM, 2182
Kramer P, 1713
Krämer S, 936
Krasnicka B, 2149
Krenz M, 2390
Krieg T, 1103
Krieger S, 1200
Krishnaswamy P, 1047
Kröger K, 804
Kron IL, 1439
Kron J, 1268
Kronzon I, 1543
Krum H, 1679

Krumholz HM, 1130
Krumsdorf U, 1714
Kubo T, 2315
Kuchulakanti P, 1386
Kuecherer H, 887
Kuehne T, 2247
Kuettner A, 1230
Kuivenhoven JA, 1429
Kukar A, 1261
Kuller LH, 579
Kumar A, 887
Kuntz RE, 1210, 1801
Kuon E, 1420
Kupari M, 1859
Kupatt C, 1124
Kuperstein R, 327
Kurotobi T, 28
Kutryk M, 733
Kuvin JT, 2137

Laarman G-J, 20
Labib SB, 82
LaCorte J, 2214
Lade S, 2307
Lafitte S, 2157
Lagerqvist B, 1933
Lahiri A, 554
Laine M, 1859
Laird JR Jr, 2087
Lakatta EG, 35, 611
Lakkis N, 2091
L'Allier PL, 159
Lam J, 1095
Lamb HJ, 1877
Lambiase P, 2089
Lamm G, 938
Lamour JM, 2065
Landesberg G, 569
Landolfo CK, 1241
Landzberg MJ, 1713
Lane D, 473
Lanfear DE, 165
Lang CCE, 1071
Lang P, 1648
Lang RM, 2111
Langerak SE, 1877
Lansky A, 1368
Lansky AJ, 305, 547, 1215, 1393
Lanza GM, 133
Lardo A, 2214
Larghero J, 458
Larkin D, 2368
Larson MG, 168
Larsson H, 1030
Lasic Z, 1200, 1393
Latiff HA, 438
Lauer MS, 431, 820, 1025
Lauer N, 1320
Lauri G, 1780
Lavelle TA, 1792, 1801
Lazzeri C, 1891
Lechi A, 635
Leclercq C, 1
Leduc L, 433
Lee DS, 2166
Lee J, 2355
Lee J-K, 914
Lee PC, 541, 1080
Lee RJ, 654
Lee V-V, 2416
Leeson PM, 2056
Lehmann R, 1690
Lehmkuhl E, 2414
Lehmkuhl HB, 2414
Lehr KA, 133
Leier CV, 1831
LeJemtel TH, 340
Lemos PA, 997
Lennon RJ, 357, 1819
Léobon B, 458
Leon MB, 305, 733, 1200, 1393
Leone O, 1570
Lepore JJ, 793
Lepore S, 762
Lerman A, 2137
Leslie SL, 57
Lespérance F, 472
Lesperance J, 766
Levels JHM, 1429
Levi M, 1144
Levin RI, 642
Levy R, 2142
Levy Y, 2003
Lew WYW, 1521
Lewin HC, 423
Lewis D, 1679
Lewis V, 513
Li J, 1501
Li X, 1459
Libhaber C, 1825
Librera M, 762
Lillie-Blanton M, 503
Lim MJ, 313
Lima JAC, 1164, 2383
Limongelli G, 398
Lin F, 1593
Lin SJ, 133
Lin Y-J, 1080
Lincoff AM, 1194, 1792
Lindahl B, 1933
Lindsay J, 1386
Lindsay J Jr, 53
Lindstedt KA, 1859
Linhart A, 144
Linker NJ, 287
Lip GYH, 415, 473, 2094
Lipinska I, 168
Lipshultz SE, 391
Lipsic E, 63
Lithell H, 1175
Liu TKK, 997
Liu T-Y, 1080
Liu W, 133
Livschitz S, 2142
Lo TSN, 2094
Lof J, 1036
Lommi J, 1859
London B, 855, 2019
López Farré A, 1578
Lorc'h ML, 458
Lotfi M, 2095
Louis P, 594
Louvard Y, 349
Love C, 1354
Love SS, 201
Lowe AM, 340
Lüderitz B, 936
Lundberg JL, 1340
Luo H, 211, 1454
Lutucuta S, 2221

Macaya C, 520, 528, 1578
MacDonald JF, 939
MacGowan GA, 2019
MacLellan WR, 1584
MacNeill BD, 972
MacRae CA, 2326
Madani MM, 389, 1141
Maddox TM, 503
MADIT II Investigators, 1481
Madjid M, 1945
Maeder M, 1763
Maekawa Y, 1510
Mahara K, 1510
Mahle WT, 184
Mahmud E, 126, 1141
Maiolino G, 209
Maisel A, 1328
Maisel AS, 1047
Maisel WH, 2249
Mäkikallio TH, 1529
Malchano ZJ, 2202
Malm S, 1030
Maniu CV, 1652
Mann K, 804
Manninen A, 1526
Manolis AS, 859
Marana I, 1780
Marber M, 2089
Marcello G, 1053
March KL, 670
Marchionni N, 1601
Marco J, 1363
Marcotte F, 433
Marenzi G, 1780
Margonato A, 1339
Margulies KB, 837
Marian AJ, 2221
Marie P-Y, 1341
Marinescu V, 2368
Mario C, 1712
Mark DB, 1809
Markiewicz W, 2003
Markus KU, 68
Marolleau J-P, 458
Maron BJ, 1053, 2044, 2125
Maron MS, 2044
Marrouche NF, 409
Marrozzini C, 1570
Marsalese DL, 1400
Marsh S, 165
Martin H, 1690
Martin LJ, 138
Martinoff S, 2073
Martins JD, 446
Marwick TH, 878, 1834
Marwock TH, 1527
Marzocchi A, 1368, 1570
Mason C, 1340
Mason JW, 853
Mason RP, 1996
Masotti G, 1601
Masoudi FA, 2333
Massaro JM, 168
Massimo C, 1712
Massumi A, 2416
Mataix L, 1557
Mateos-Cáceres PJ, 1578
Materne PH, 528
Matetzky S, 327
Mathier M, 2019
Matsui T, 2231
Matsumoto T, 451, 914
Matsuo S, 451
Matsuzaki M, 914, 2192
Mattle HP, 750
Maurer MS, 1543
Mayer JE Jr, 446
Mayer M, 569
Mäyränpää M, 1859
McAlister FA, 810, 1587
McAnulty J, 1268
McBane RD, 2411
McCabe CH, 783, 1988
McCarthy PM, 1439
McCullough P, 1328
McCurley JM, 1301
McDermott MM, 618
McGrain AC, 2185
McGuire DK, 1011, 1812
McKenna WJ, 398, 2033, 2315
McLaughlin MG, 1215
McLeod HL, 165
McMullan DM, 1497
McMurray JJJV, 810
McMurray JJV, 2398
McNamara DM, 2019
McNamara RL, 475
McNitt S, 1481
Mega JL, 335
Mehilli J, 2073, 2133
Mehran R, 305, 547, 1200, 1215, 1393
Mehta RH, 1400
Meier B, 750
Meier-Ewert HK, 1530
Meijboom EJ, 1087
Meine TJ, 192
Meinus C, 2247
Meissner I, 1018
Meloche B, 1473
Menard J, 144
Menasché P, 458
Mencarelli A, 635
Meneguzzi A, 635
Menicanti L, 1439
Menon V, 340
Mensah G, 1268
Mensah GA, 503
Meo Neto JP, 1812
Mercier L-A, 433
Meredith IT, 778
Merz CNB, 720, 2082
Mesa JM, 1641
Mesas CE, 1071
Messerli FM, 2097
Meverden RA, 988
Meyer DM, 1652
Meyer T, 2258
Meyer W, 624
Michalski M, 1301
Michev I, 967
Miedema K, 1187
Miettinen TA, 1002
Mikhail MA, 2411
Mills R, 50
Minich LLA, 188
Mintz GS, 53, 1200, 1393
Minuz P, 635
Minz GS, 2087
Miquel K, 1363
Miranda-Peats R, 923
Mist B, 398
Miyamoto T, 211, 1454
Miyamoto Y, 117
Mizuno H, 28
Mizushige K, 904
Modena MG, 1636
Mogensen J, 2033, 2315
Mohapatra B, 1139
Molhoek SG, 1834
Moliterno DJ, 775
Montorfano M, 967
Montorsi F, 1339
Montorsi MT-FP, 1339
Moon JC, 2315
Moon JCC, 554
Moore P, 2247
Moore W, 1439
Morelli A, 635
Moreno PR, 2099, 2293
Moreno R, 520
Moritz T, 2149
Morrison LK, 1047
Morrow DA, 335, 564, 783, 1812, 1988
Moses J, 733
Moses JW, 1200, 1393
Moss AJ, 1481, 1889
Mosseri M, 569
Mottram PM, 1527
Moussa I, 1200
Mudaliar S, 1047
Mueller S, 887
Mukherjee D, 576
Muller K, 2349
Müller S, 624
Mullington JM, 1530
Mulyadi MD, 438
Murali S, 2019
Murayama M, 471
Murohara T, 661
Murphy JG, 201
Murphy JJ, 287
Murphy RT, 398, 2033, 2315
Murphy SA, 335, 564, 799, 980, 1801, 1812
Musha H, 471

Naber CK, 804
Naccarelli GV, 1358
Nadar SK, 415
Nagashima J, 471
Nahlawi M, 1883
Najjar SS, 611
Nakahata J-i, 1292
Nakamura H, 2192
Nakamura K, 117
Nakano H, 1292
Nakatani D, 28
Namba T, 644
Nambi V, 1436
Nanthakumar K, 2166
Nao T, 914
Narasimhan C, 2256
Nasir K, 2383
NASPEAF Investigators, 1557
Natale A, 409
Ndrepepa G, 2073
Nedeltchev K, 750
Negoita M, 547, 1200
Nekolla SG, 2073
Neubauer S, 2056
Neuman Y, 1454
Neumann F-J, 2133
Nieman K, 1238
Nihoyannopoulos P, 1
Niiyama H, 661
Nikolsky E, 547, 1200, 1393
Nippert M, 594
Nishi A, 2239
Nishi H, 2192
Nishii M, 1292
Nishimura RA, 2044, 2329
Nissen S, 1137
Node K, 1408
Noma T, 644

JACC Vol. 44, No. 12, 2004
December 21, 2004:2420–6

Norra C, 68
Norris CM, 1587
Norton GR, 1825
Nowak R, 1328
Núñez A, 1578
Nuzzo A, 1636

OACIS Group, 28
Obiaha-Ngwu O, 855
Oblak A, 144
O'Connor CM, 472, 959, 1446
O'Connor F, 611
Oettinger M, 2142
O'Gara P, 206
Ogawa S, 1510
Ohe T, 117
Ohira N, 451
Ohkusa T, 914
Ohmori K, 644, 904
Ohno K, 2252
Ohno S, 117
Ojamaa K, 837
O'Kane HO, 1143
O'Leary EL, 2185
Olenburger T, 1966
Oliver JM, 1641
Olofsson B, 1175
Olschewski H, 1488
Olshansky B, 2419
Omland T, 1334, 1970, 1988
Ommen SR, 602, 1903, 2044, 2329
O'Neill G, 2419
O'Neill JO, 820
O'Neill WW, 297, 1400
Origliani G, 1636
Ormiston JA, 1363
Ornato JP, 2214
O'Rourke MF, 1527
Oshita A, 644
Ostermayer S, 1714
Ottenkamp J, 1095
Otterdal K, 369
Ottervanger JP, 1187
Otto-Terlouw PC, 528
Oudiz RJ, 2256
Ovitt T, 2149
Oxenham HC, 892, 2413
Oz MC, 1439
Ozaki Y, 1408
Ozeki Y, 1408

Packard CJ, 2375
Paglino G, 1071
Palacios IF, 793, 1662, 1713
Palmen M, 1113
Palmerini T, 1570
Panagiotakos D, 1911
Panagiotakos DB, 152
Papademetriou V, 1175
Pappas C, 1386
Pappas CK, 2087
Pappone C, 1071
Paradis N, 2214
Park JE, 2192
Parker JD, 632
Parrinello G, 14
Parthenakis FI, 2027
Pass RH, 513
Passman RS, 1248
Pasternak RC, 720
Patel AS, 1898
Patel JB, 1652
Patel MR, 192
Patel S, 2089
Patrianakos AP, 2027
Patruno N, 2096
Patsouras N, 859
Pauwels EKJ, 1877
Pearlman JD, 1980
Pedersen SS, 997
Pelliccia A, 1053
Pellikka P, 1664
Pennell DJ, 554
Penny WF, 1141
Pepine CJ, 509, 1137
Percoco G, 14
Perera D, 2089
Perez De Arenaza D, 554
Pérez-Gómez F, 1557
Perricone A, 1141
Peshock R, 1011
Petersen SE, 2056
Petersen W, 1429
Peterson E, 933
Peterson ED, 1241
Peterson LR, 2258
Petrie JR, 2375
Petterson TM, 1018
Pfeffer MA, 2398
Phaneuf D, 2355
Philip J, 1261
Phillips P, 1036
Piacentino V III, 837
Picard MH, 2111
Piccioli M, 1570
Pichard AD, 53, 1386, 2087
Pickering TG, 472
Pimentel G, 520
Ping P, 1584
Pini R, 1601
Pinnow E, 1386
Piorkowski C, 869
Pislaru C, 1664
Pitkälä K, 1002
Pitney M, 1363, 1368
Pitsavos C, 152, 1911
Pitt B, 10
Platia E, 2419
Plein S, 2173
Plumb VJ, 2166
Pocock SJ, 1200
Polk D, 923
Polonski L, 1363
Polyakova V, 1609
Ponce de Leon A, 2091
Pontillo D, 2096
Poole-Wilson PA, 554
Pop-Busui R, 2368
Popma JJ, 1210
Popp RL, 1709, 1717
Porter TR, 1036, 2185
Portman MA, 1497
Postava L, 2019
Postema P, 2089
Pothier CE, 820
Pozzi C, 1601
PRESTO Investigators, 1786
Preston G, 1996
Price DJA, 287
Price NJ, 1530
Prieto C, 520
Priori SG, 117
Prochnau D, 2301
Proctor JB, 1103
Pubimanasinghe JPA, 1142
Puchalski MD, 188
Pumper GM, 2137

Quaegebeur JM, 2065
Quigley RL, 1140

Raake P, 1124
Radeva J, 192
Radio SJ, 1036
Radovancevic B, 1181
Raffel DM, 2368
Rahimtoola S, 667
Rai PB, 2087
Raisinghani A, 126
Rantanen K, 1002
Rao SV, 192
Rashidi A, 1528
Raviele A, 864
Reaven GM, 78
Reddy K, 846
Reddy VY, 2202
Redfield MM, 1652
REDHOT Investigators, 1328
Redwood C, 2033
Redwood S, 2089
Reed G, 1261
Reeder GS, 988
Regan MM, 1530
Regitz-Zagrosek V, 2414
Rehman J, 670
Reich O, 1927
Reichenberger F, 1488
Reid IR, 892
Reifart N, 1368
Reisman M, 1713
Reith S, 398
Renga B, 635
REPLACE-2 Investigators, 1194, 1792
Resink T, 1415
RESTORE Group, 1439
Rettmann DW, 2383
Reuter DG, 1652
Reuter G, 1420
Reuter S, 2157
Reynolds D, 1354
Rezkalla SH, 276
Ricciardelli B, 762
Rickli H, 1763
Rico LA, 1578
Riddle JR, 201
Ridgway JP, 2173
Ridker PM, 1530
Riemer RK, 1497
Rienstra M, 2417
Riezebos RK, 20
Rifai N, 335, 1530
Rigattieri S, 349
Rihal CS, 357, 1652
Riordan CJ, 2415
Rispler S, 2003
Riviezzo G, 762
Ro PS, 184
Robbins J, 2390
Roberts WC, 1847
Robidel E, 458
Robinson DM, 1420
Robson MD, 2056
Rodeheffer RJ, 740
Rodriguez L-M, 1626
Roger VL, 988
Romano SM, 1891
Rome JJ, 184
Rosenfeld L, 2419
Rosenzweig A, 2231
Rossi GP, 209
Rossi R, 1636
Rossillo A, 864
Rossman EI, 837
Rosso R, 105
Rott D, 897
Roudaut R, 2157
Roussakis A, 1867
Rowe BH, 2355
Rowe W, 2094
Roy D, 2355
Rozanski A, 923, 1062, 1261
Rücker-Martin C, 1918
Rudge JS, 897
Ruf-Richter J, 95
Rumsfeld JS, 2333
Rushing O, 503
Ruskin JN, 2202
Russell ME, 1368
Rutsch W, 528, 1194
Ryan T, 1241, 1957
Ryan TJ, 790
Rychik J, 184

Saba S, 855
Sabaté M, 520
Sabatine MS, 335, 1988
Sadanandan S, 564, 799
Sade LE, 1619
Sadeghi HM, 126, 1786
Sadoul N, 594
Saeed M, 2247
SAFER Trial Investigators, 1801
Sagberg E, 1030
Sagie A, 327
Sahn DJ, 1459
Sakai H, 2252
Sakuma M, 324, 1408
Sala S, 1071
Saleem A, 2091
Saliba W, 409
Salm LP, 1877
Salomaa VV, 1002
Salonia A, 1339
Saltzberg M, 1328
Salvador A, 1557
Samion H, 438
Samuel J-L, 458
Sanchez X, 1139
Sanders P, 109, 1700, 2157
Sanders SP, 1648
Sandner T, 1124
Sangiorgi GM, 967
Santinelli V, 1071
Santos MM, 1062
Sareli P, 1825
Sarembock IJ, 1792
Sasaki K-I, 661
Sassara M, 2096
Sastry BKS, 2256
Satler LF, 53, 1386
Sato C, 904
Sato H, 28, 300
Satoh T, 914
Sattar N, 2375
Saw J, 1194
Scarpato P, 762
Schächinger V, 1690
Schaff HV, 1467, 2044, 2329
Schalij MJ, 1, 1834
Schaper J, 1609
Scharhag J, 470
Schectman KB, 2258
Scheinert D, 1966
Scheinert S, 1966
Scheinman MM, 864
Schermuly RT, 1488
Schick EC, 82
Schieffer B, 362
Schömig A, 1363, 2073
Schindera ST, 1459
Schirdewahn P, 869
Schlosser T, 1224
Schmermund A, 804, 1224
Schmid H, 2368
Schmidt A, 1966
Schmidt EJ, 2202
Schmitt C, 2073
Schock R, 2383
Schoels W, 95
Schofer J, 1368
Scholz H, 369
Schömig A, 2133
Schott LL, 579
Schräder R, 1714
Schroeder J, 2368
Schroeder S, 1230
Schuler G, 1124, 1966
Schulman KA, 192
Schulman S, 35
Schulman SP, 611
Schwaiger M, 2073
Schwammenthal E, 327
Schwann TA, 2415
Schwartz GL, 1018
Schwartz L, 766
Schwartz RS, 1373
Schwartzman D, 1619
Schwarz G, 2301
Schwedhelm E, 362
Schweikert RA, 409
Schwerzmann M, 750
Sciammarella MG, 1062
SCOPE Study Group, 1175
Scott M, 778
Scott ML, 1439
Sears SF Jr, 1265
See F, 1679
Seeger W, 1488
Seidelin PH, 2095
Seidman CE, 2125
Seidman JG, 2125
Seiler C, 750
Sekarski N, 1087
Sella R, 2003
Semigran M, 2231
Semigran MJ, 793
Senges-Becker JC, 95
Senior R, 554
Serruys P, 733
Serruys PW, 528, 1363
Serruys PWJC, 997
Seshadri N, 409
Sestier F, 1181
Sethi G, 2149
Seward J, 1664
Seyfarth M, 2073
Shadman R, 618
Shah PK, 1311
Shannon WD, 165
Sharma A, 2419
Sharma SK, 541
Shatz V, 569
Shaw L, 923

Shaw T, 2033
Shedd OL, 1265
Sheikh-Ahmad M, 2003
Shelton RJ, 2418
Shepard RK, 1898
Sheps DS, 472
Sheps SG, 1018
Sherwood MC, 446
Shewchuk L, 778
Shi W, 1248
Shimada T, 661
Shimbo D, 472
Shimizu M, 28, 117
Shimizu W, 117
Shimodouzono S, 300
Shin JT, 793
Shinomiya K, 644, 904
Shishkov M, 972
Shlipak MG, 1593
SHOCK Investigators, 340
Shooner K, 138
Shou M, 897
Shyam-Sundar A, 287
Sianos G, 528, 1363
Siecke NW, 2016
Siegbahn A, 1933
Siegel AH, 1980
Siegel RJ, 211, 1454
Sievers RE, 654
Sievert H, 1714
Sigwart U, 2054
Silber S, 1368, 2416
Siler W, 1439
Simada K, 936
Simon DI, 324
Simonds H, 1648
Simonini S, 2096
Singh M, 357
Sinha A-M, 68
Sirak TE, 497
Sivananthan MU, 2173
Skalidis EI, 2027
Skjaerpe T, 1030
Skobel EC, 68
Skoog I, 1175
Skotzko C, 2254
Skowasch D, 936
Slagboom T, 20
Slater JN, 340
Slingerland RJ, 1187
Sliwa K, 1825
Smilde TDJ, 63
Smirk B, 2008
Smith C, 369
Smith RH, 287
Smith SC Jr, 720, 1709, 1717
Smith WT IV, 1241
Smits PC, 997
Sobotka-Plojhar MA, 1095
Soejima K, 1059, 2249
Sogaard P, 1
Solaro RJ, 2041
Solomon A, 2419
Solomon P, 57
Somers VK, 1819
Sommer R, 1713
Sosa E, 1626
Soukhomovskaia O, 14
Sousa JE, 1363
Sparks PB, 109
Spataro A, 1053
Spence SJ, 109
Spertus JA, 165, 2333
Spevack D, 1543
Spies SM, 1883
Splawski I, 1283
Squire IB, 1970
Sreeram N, 1095
Stabile E, 897
Stadius M, 766
Stadius ML, 25
Staniloae C, 1473
Stankovic G, 967
Stanley AWH, 1439
Stanson AW, 2411
Starr A, 384
Statler LF, 2087
Staudt A, 829
Staudt Y, 829
Stecker EC, 1268
Steendijk P, 1834
Stefanadis C, 152, 1911
Stein PK, 668
Steinberg JS, 1261, 1265
Steinhubl SR, 2133
Stellbrink C, 68
Stephens D, 1501
Sternick EB, 1626
Stevens MJ, 2368
Stevenson IH, 109
Stevenson WG, 1059, 1550, 2249
Stewart MJ, 287
Stewart RAH, 2413
Stewart S, 810
Stiell IG, 2355
Stöllberger C, 1139
Stone GW, 305, 547, 1200, 1215, 1393, 1400
Stone NJ, 720
STOPAMI-4 Study Investigators, 2073
Strandberg A, 1002
Strandberg TE, 1002
Straub M, 99
Strauss AW, 391
Strickberger SA, 88
Stricker BHC, 2117
Stridsberg M, 1933
Stroes ESG, 1429
Stroud S, 1446
Struthers AD, 939
Stuckey T, 305, 547, 1215
Stumpf J, 1368
Suarez J, 1675
Suchkova VN, 1454
Suddath WO, 53, 2087
Sugano Y, 1510
Suma H, 1439
Suma V, 1261
Sun JL, 1446
Suorsa V, 1454
Suryapranata H, 1187
Sutherland GR, 1672
Sutherland P, 168
Sutton AGC, 287
Sutton MSJ, 1
Sutton-Tyrrell K, 579
Suttorp MJ, 1363
Suty-Selton C, 594
Suvorava T, 1320
Swanson JC, 1459
Swerdlow CD, 92
Swerdlow DL, 201
Szarf G, 2383
Szufladowicz E, 1700
Szumowski L, 1700
Taegtmeyer AB, 1254
Taher T, 38
Tai C-T, 1080
Tajik AJ, 602, 1664, 1903, 2329
Takada H, 471
Takahashi M, 2192
Takahashi T, 1510
Takano M, 972
Takaseya T, 2239
Takashima H, 451
Takayama T, 2252
Takehana H, 1292
Takenaka K, 117
Takeuchi H, 644, 904
Takeuchi I, 1292
Takkenberg JJM, 1142
Talreja DR, 2329
Tamura N, 316
Tanaka A, 300, 936
Tanaka H, 300
Tanasijevic M, 1988
Taneja AK, 554
Tang WHW, 78
Tani LY, 188
Tanner H, 869
Tapanainen JM, 1529
Tardif J-C, 159, 778
Tarutani Y, 451
Tayama E, 2239
Taylor RA, 846
Tcheng JE, 305, 547, 1215
Tearney GJ, 972
Tedrow U, 2249
ten Berg JM, 2133
Terrier de la Chaise A, 594
Teupe C, 1690
Thaler HT, 1248
Thaman R, 398
Themistoclakis S, 864
Theuns DAMJ, 2362
Thomas B, 1248
Thomas C, 1713
Thomas SA, 2255
Thomas W, 1679
Thompson B, 1268
Thompson P, 2082
Thompson T, 1454
Thottapurathu L, 2149
Thuesen L, 1363
Thum P, 1415
Tiburcy M, 829
TIMI Study Group, 799, 980
Timmermans C, 1626
Timothy KW, 1283
Tomasi L, 1570
Tomek V, 1927
Tomita T, 1071
Tonelli M, 1587
Topol EJ, 1194, 1792
Torguson R, 1386
Tornberg DN, 201
Torre-Amione G, 1181
Towbin JA, 117, 391, 1139, 2041
Trabold T, 1230
Trenkwalder P, 1175
Trepels T, 1714
Trinkaus K, 391
Tsapenko M, 733
Tse TS, 2411
Tsimikas S, 1141
Tsirka AE, 391
Tsutamoto T, 2252
Tsutsui JM, 1036
Tsyboulev V, 2091
Tsybouleva N, 2221
Tumminello G, 2339
Turco M, 305, 547, 1215
Turner SP, 57
Turri M, 349
Turto H, 1859
Tzanidis A, 1679

Uchida E, 300
Uchida T, 1408
Ueda K, 2192
Ueland T, 369, 1970
Urbanek P, 1700
Uretsky BF, 1343
Urhausen A, 470

VA Cooperative Study Group #207/297/364, 2149
Vachenauer R, 1124
Valeti US, 1533, 2329
Valgimigli M, 14
Validire P, 1918
Van Bilsen M, 1113
Van De Werf F, 38
Van den Berg MP, 2417
van den Heuvel PA, 528
van der Giessen WJ, 528
van der Heijden DJ, 20
van der Hooft CS, 2117
van der Meer P, 63
van der Wall EE, 937, 1834, 1877
van der Wieken LR, 20
van Deurzen CHM, 1095
van Dijk N, 588
van Domburg RT, 997
Van Driest SL, 602, 1903
Van Gelder IC, 2417
van Gilst WH, 63
van Herpen G, 2117
van Herwerden LA, 1142
Van Schuerbeeck E, 2349
van 't Hof AWJ, 1187
Van Veldhuisen DJ, 63, 2417
van Vooren PR, 997
Vanderheyden M, 2349
Vandervelde S, 458
Vanoli E, 1675
Vardanian AJ, 654
Vardas PE, 2027
Vasan RS, 168
Vasile VC, 1903
Vassanelli C, 349
Vatta M, 1139
Vega GL, 1011
Veglia F, 1780
Veldhof S, 528, 1363
Veldtman GR, 174
Venge P, 1933
Verdile L, 1053
Verdino RJ, 827
Vered S, 2142
Verheugt F, 38
Verma A, 409
Verma S, 1478
Verstreken S, 2349
Vicedomini G, 1071
Vickers C, 1268
Vidaillet H, 2355
Villareal RP, 2416
Vilquin J-T, 458
Vincent GM, 1283
Vink R, 1144
Violante A, 762
Virmani R, 1363, 1373
Viskin S, 105
Vita JA, 168
Vitrella G, 967
Vittinghoff E, 1593
Vlachopoulos C, 1911
Vliegen HW, 1877
Vloka M, 1261
Vogl TJ, 1690
Vohra JK, 109
Voigt A, 855
von Degenfeld G, 1124
von Segesser LK, 1087
Vondriska T, 1584
Vonhausen H, 528
Voors AA, 63
Voss F, 95
Voswinckel R, 1488

Wada A, 2252
Waggoner A, 2258
Waggoner AD, 1467
Wagner GS, 38
Wahl A, 750
Waksman R, 53, 538, 1386, 2087
Walczak F, 1700
Waligora M, 1883
Walker J, 897
Wallentin L, 38, 1933
Walsh HJ, 892
Walter MF, 1996
Wang D, 554
Wang Q, 2056
Wang T, 1276
Warner A, 2419
Warnes CA, 174
Washizuka T, 117
Wasserman K, 2256
Watkins H, 2033
Watkins MP, 133
Way K, 1679
Webb JG, 340
Weber C, 837
Weber KT, 1308
Weber O, 2247
Weber T, 938
Wechsler L, 1713
Wedam EF, 1301
Wei L, 2221
Wei S-k, 1301
Weinberg SL, 1935
Weisel RD, 1478
Weissman C, 569
Weissman N, 1386
Weissman NJ, 53, 2087
Weissmann N, 1488
Wellens HJJ, 1155, 1626
Wenger NK, 586
Weretka S, 95
Werkkala K, 1859
Wernecke KD, 829
Werner GS, 2301
Wesolowski AA, 2307
Wesseling KH, 588
Westendorp ICD, 20
Westerhof BE, 588
Weston SA, 988
Wetterling R, 1340
Whalley GA, 469, 892

Whellan DJ, 1446
Whisnant JP, 1018
Whitbourn R, 1363
White HD, 2413
Whiting B, 1283
Whitlow PL, 766
Wichert M, 804
Wickline SA, 133
Wiebers DO, 1018
Wieling W, 588
Wiesmann F, 2056
Wijns W, 528
Wilcox RG, 1194
Wildman RP, 579
Wilkins GT, 1363
Will ML, 602, 1903
Willems J, 1113
Willerson JT, 1786, 1945
Willett DW, 1011
Williams BA, 1786
Williams C, 2008
Williams RV, 188
Williams TA, 133
Wilson JM, 2416
Wilson P, 846
Wilson PWF, 168
Win HK, 1341
Windecker S, 750
Witt BJ, 988
Witte J, 362
Witteles RM, 78
Wiviott SD, 783
Wæhre T, 369
Wolf D, 887
Wolk M, 1137
Wolk MJ, 206, 933, 1523, 1709, 2082, 2408
Wolk R, 1819
Wolski K, 1194
Wong ND, 923
Wood MA, 1898
Woodiwiss AJ, 1825
Worthley SG, 778
Wright RA, 287
Wu YX, 384
Wucherer M, 1420
Wunderle L, 829

Xie F, 1036, 2185

Yabushita H, 972
Yajima T, 1298
Yamada E, 2368
Yamada Y, 209
Yamaguchi M, 117
Yamamoto T, 661, 2252
Yamane T, 451
Yancopoulos GD, 897
Yang X-M, 1103
Yang Y, 864
Yano J, 1311
Yano M, 914
Yasuda Y, 451
Yasui K, 914
Yasunami M, 2192
Yeo K-TJ, 1980
Yilmaz S, 2247
Yip G, 1664
Yndestad A, 369
Yokota M, 209
Yong P, 72
Yoshikawa J, 300, 936
Yoshikawa T, 1510
Yoshimasa Y, 117
Yoshiyama M, 936
You CW, 2192
Young J, 1181
Young JB, 820
Yu H, 159
Yu Y, 904
Yu Z, 897, 1011

Zacharias A, 2415
Zadan E, 1714
Zadina K, 2149
Zafari AM, 846
Zanchetti A, 1175
Zapol WM, 793
Zardini P, 349
Zareba W, 1481
Zarter SK, 846
Zeiher AM, 44, 464, 1363, 1690
Zeltser D, 105
Zhang H, 1248
Zhang L, 1283
Zheng Z-J, 1268
Zhou YF, 897
Ziegelhoeffer T, 1609
Zijlstra F, 1187
Zimetbaum P, 1215
Zimmermann PA, 1276
Zimmermann R, 1113
Zoghbi WA, 1341, 2111
Zornitzki T, 2142
Zumalde J, 1557
Zviman M, 2214
Zwinderman AH, 1429

Journal of the American College of Cardiology
© 2004 by the American College of Cardiology Foundation
Published by Elsevier Inc.

Vol. 44, No. 12, 2004
ISSN 0735-1097/04/$30.00

Subject Index: Volume 44

Ablation
See also Surgery
Importance of ablating all potential right atrial flutter circuits in postcardiac surgery patients, 409
Left atrial tachycardia after circumferential pulmonary vein ablation for atrial fibrillation, 1071
Mapping and ablation of polymorphic ventricular tachycardia after myocardial infarction, 1700
Non-contact mapping to guide radiofrequency ablation of atypical right atrial flutter, 1080
Aborted myocardial infarction
Aborted myocardial infarction in patients with ST-segment elevation, 38
ACC or ACCF
ACC/AHA 2004 guideline update for coronary artery bypass graft surgery: summary article, 1146
ACC/AHA guidelines for the management of patients with ST-elevation myocardial infarction—executive summary, 671
ACCF/AHA consensus conference report on professionalism and ethics, 1718
ACCF/AHA/HRS/SCAI clinical competence statement on physician knowledge to optimize patient safety and image quality in fluoroscopically guided invasive cardiovascular procedures, 2259
An offer that can't (or shouldn't) be refused, 467
Comparison of Mayo Clinic risk score and American College of Cardiology/American Heart Association lesion classification in the prediction of adverse cardiovascular outcome following percutaneous coronary intervention, 357
Highlights of the 53rd Annual Scientific Session of the American College of Cardiology—March 7–10, 2004, 1A
35th Bethesda Conference: cardiology's workforce crisis: a pragmatic approach, 216
ACC News
Newly elected members of the college, 2085
President's page: ACC's continuing education programs: setting up systems to meet members' changing needs, 206
President's page: cardiology without borders: embracing a healthy global association, 1137
President's page: the appropriate cardiologist: responsible stewardship in a golden era of cardiology, 933
President's page: the practice of medicine: many hands, light work, 2408
President's page: the trust imperative: ethical choice always puts patient first, 1709
Actinomycin-eluting stent
Actinomycin-eluting stent for coronary revascularization, 1363
Activin A
Potential anti-inflammatory role of activin A in acute coronary syndromes, 369
Acute coronary syndromes
Assessment of non-ST-segment elevation acute coronary syndromes with cardiac magnetic resonance imaging, 2173
Heart disease leaves its mark (editorial), 1584
Potential anti-inflammatory role of activin A in acute coronary syndromes, 369
Proteomic analysis of plasma from patients during an acute coronary syndrome, 1578
Severe ostial saphenous vein graft disease leading to acute coronary syndromes after proximal aorto-saphenous anastomoses with the Symmetry Bypass Connector Device (letter), 1140
Acute myocardial infarction
See Myocardial infarction
Adolescents
Morphology of bicuspid aortic valve in children and adolescents, 1648
Adrenergic receptor polymorphisms
Clarifying the effects of adrenergic receptor polymorphisms by measuring synaptic parameters (editorial), 2016
Interaction between cardiac sympathetic drive and heart rate in heart failure, 2008
Adult Treatment Panel III
Implications of recent clinical trials for the National Cholesterol Education Program Adult Treatment Panel III guidelines, 720
Aerobic exercise
Age and gender affect ventricular-vascular coupling during aerobic exercise, 611
African Americans
See also Race
African Americans and Caucasians have a similar prevalence of coronary calcium in the Dallas Heart Study, 1011
Genotypes associated with myocardial infarction risk are more common in African Americans than in European Americans, 165
Age
See also Elderly
Age and gender affect ventricular-vascular coupling during aerobic exercise, 611
Age-associated cardiovascular changes are the substrate for poor prognosis with myocardial infarction (editorial), 35
Electrophysiologic and electroanatomic change in the human atrium associated with age, 109
Influence of age, gender, and race on the prevalence of depression in heart failure patients (letter), 2254
Reduced collateral circulation to the infarct-related artery in elderly patients with acute myocardial infarction, 28
AHA
ACC/AHA 2004 guideline update for coronary artery bypass graft surgery: summary article, 1146
ACC/AHA guidelines for the management of patients with ST-elevation myocardial infarction—executive summary, 671
ACCF/AHA consensus conference report on professionalism and ethics, 1718
ACCF/AHA/HRS/SCAI clinical competence statement on physician knowledge to optimize patient safety and image quality in fluoroscopically guided invasive cardiovascular procedures, 2259
Comparison of Mayo Clinic risk score and American College of Cardiology/American Heart Association lesion classification in the prediction of adverse cardiovascular outcome following percutaneous coronary intervention, 357
Albuminuria
Reduced glomerular filtration rate in asymptomatic diabetic patients—predictor of increased risk for cardiac events independent of albuminuria, 2142
Alcohol septal ablation
Alcohol septal ablation versus surgical septal myectomy: comparison of effects of atrioventricular conduction tissue, 2329
Aldosterone
Torasemide inhibits transcardiac extraction of aldosterone in patients with congestive heart failure, 2252
Amplatz ductal occluder
Multicenter USA Amplatz patent ductus arteriosus occlusion device trial, 513
Amputation
Long-term survival and amputation risk in thromboangiitis obliterans (Buerger's disease), 2410
Anastomoses
Diagnostic assessment before Fontan operation in patients with bidirectional cavopulmonary anastomosis, 184
Effects of carbon dioxide on oxygenation and systemic, cerebral, and pulmonary vascular hemodynamics after the bidirectional superior cavopulmonary anastomosis, 1501
Severe ostial saphenous vein graft disease leading to acute coronary syndromes after proximal aorto-saphenous anastomoses with the Symmetry Bypass Connector Device (letter), 1140
Anemia
Anemia as a risk factor and therapeutic target in heart failure, 959
Anemia is an independent predictor of mortality after percutaneous coronary intervention, 541
Impact of anemia in patients with acute myocardial infarction undergoing primary percutaneous coronary intervention, 547
Angina
Brachytherapy: potential therapy for refractory coronary spasm, 1415
Native coronary disease progression exceeds failed revascularization as cause of angina after five years in the Bypass Angioplasty Revascularization Investigation (BARI), 766
Risk score to estimate the likelihood of coronary artery bypass surgery during the index hospitalization among patients with unstable angina and non–ST-segment elevation myocardial infarction, 799
Angiography
See also Coronary angiography; Magnetic resonance angiography
Angiographic and clinical benefits of mibefradil in the coronary slow flow phenomenon, 57
Angiography and interventional cardiology, 13A
Association of duration of symptoms at presentation with angiographic and clinical outcomes after fibrinolytic therapy in patients with ST-segment elevation myocardial infarction, 980
Association of elevated B-type natriuretic peptide levels with angiographic findings among patients with unstable angina and non–ST-segment elevation myocardial infarction, 564
Clinical, angiographic, and intravascular ultrasound characteristics of early saphenous vein graft failure, 53
Clinical and angiographic outcome after sirolimus-

eluting stent implantation in aorto-ostial lesions, 967
Diagnostic performance of coronary magnetic resonance angiography as compared against conventional x-ray angiography, 1867
Functional significance of stenoses in coronary artery bypass grafts, 1877
Intravascular ultrasound assessment of angiographic filling defects in native coronary arteries: do they always contain thrombi? (letter), 2087

Angioplasty
See also Balloon angioplasty; Percutaneous transluminal coronary angioplasty; Primary angioplasty
Primary stent supported angioplasty for treatment of below-knee critical limb ischemia and severe claudication: early and one year outcomes, 2307

Angiopoietin-1
Effects of gene delivery on collateral development in chronic hypoperfusion, 897

Angiotensin II
Cerebroprotection mediated by angiotensin II (letter), 2097
Induction of local angiotensin II-producing systems in stenotic aortic valves, 1859

Angiotensin II type 1 receptor
Comparative effects of AT1-antagonism and angiotensin-converting enzyme inhibition on markers of inflammation and platelet aggregation in patients with coronary artery disease, 362

Angiotensin II type-1 receptor blockers
Stroke prevention with the angiotensin II type-1 receptor blocker candesartan in elderly patients with isolated systolic hypertension, 1175

Angiotensin receptor blockers
Hard look at angiotensin receptor blockers in heart failure, 1841

Angiotensin-converting enzyme deletion polymorphism
Pharmacogenetic interactions between angiotensin-converting enzyme inhibitor therapy and the angiotensin-converting enzyme deletion polymorphism in patients with congestive heart failure, 2019

Angiotensin-converting enzyme inhibitors
Angiotensin-converting enzyme inhibition in hypertensive patients is associated with a reduction in the occurrence of atrial fibrillation, 159
Comparative effects of AT1-antagonism and angiotensin-converting enzyme inhibition on markers of inflammation and platelet aggregation in patients with coronary artery disease, 362
Impact of initiating carvedilol before angiotensin-converting enzyme inhibitor therapy on cardiac function in newly diagnosed heart failure, 1825
Pharmacogenetic interactions between angiotensin-converting enzyme inhibitor therapy and the angiotensin-converting enzyme deletion polymorphism in patients with congestive heart failure, 2019

Animal models
See also Porcine models; Murine models
Accurate and objective infarct sizing by contrast enhanced MRI in a canine myocardial infarction model, 2383
Ephedrine increases ventricular arrhythmias in conscious dogs after myocardial infarction, 1675
Induction and reversal of cardiac phenotype of human hypertrophic cardiomyopathy mutation cardiac troponin T-Q92 in switch on-switch off bigenic mice, 2221
Mechanical unloading improves intracellular Ca^{2+} regulation in rats with doxorubicin-induced cardiomyopathy, 2239
Moderate and chronic hemodynamic overload of sheep atria induces reversible cellular electrophysiologic abnormalities and atrial vulnerability, 1918
MRI guided transcatheter implantation of a prosthetic valve in aortic valve position: feasibility study in swine, 2247
Multiple, brief coronary occlusions during early reperfusion protect rabbit hearts by targeting cell signaling pathways, 1103
p38 mitogen-activated protein kinase inhibition improves cardiac function and attenuates left ventricular remodeling following myocardial infarction in the rat, 1679
Physical inactivity causes endothelial dysfunction in healthy young mice, 1320
Rapid reversal of endothelial dysfunction in hypercholesterolemic apolipoprotein E-null mice by recombinant apolipoprotein A-I_{Milano}-phospholipid complex, 1311

Annuloplasty
Acute and chronic reduction of functional mitral regurgitation in experimental heart failure by percutaneous mitral annuloplasty, 1652

Antiarrhythmic agents
Randomized controlled trial of RSD1235, a novel antiarrhythmic agent, in the treatment of recent onset atrial fibrillation, 2355
Use of ibutilide in cardioversion of patients with atrial fibrillation or atrial flutter treated with class IC agents, 864

Anticoagulants
See also Aspirin; Heparin
Anticoagulation management of patients with prosthetic valves (letter), 1143
Comparative effects of antiplatelet, anticoagulant, or combined therapy in patients with valvular and nonvalvular atrial fibrillation, 1557
Reconsidering combined antiplatelet and anticoagulant therapy in atrial fibrillation (editorial), 1567

Antiplatelet therapy
Achieved platelet aggregation inhibition after different antiplatelet regimens during percutaneous coronary intervention for ST-segment elevation myocardial infarction, 1187
Comparative effects of antiplatelet, anticoagulant, or combined therapy in patients with valvular and nonvalvular atrial fibrillation, 1557
Reconsidering combined antiplatelet and anticoagulant therapy in atrial fibrillation (editorial), 1567

Aorta
Atherosclerosis of the aorta: risk factor, risk marker, or innocent bystander?, 1018
Risk factors for aortic complications in adults with coarctation of the aorta, 1641

Aortic dissection
Value of plasma fibrin D-dimers for detection of acute aortic dissection, 804

Aortic stenosis
Induction of local angiotensin II-producing systems in stenotic aortic valves, 1859
Is it ever too late to operate on the patient with valvular heart disease?, 376
Low flow–low gradient aortic stenosis (editorial), 1856
Relation of weights of operatively excised stenotic aortic valves to preoperative transvalvular peak systolic pressure gradients and to calculated aortic valve areas, 1847
Should coronary artery bypass graft surgery patients with mild or moderate aortic stenosis undergo concomitant aortic valve replacement?, 1241
Wall stress modulates brain natriuretic production in pressure overload cardiomyopathy, 2349

Aortic stiffness
Smoking and caffeine have a synergistic detrimental effect on aortic stiffness and wave reflections, 1911

Aortic valve
Bicuspid aortic valve is heritable, 138
Durability of pericardial versus porcine aortic valves, 384
Induction of local angiotensin II-producing systems in stenotic aortic valves, 1859
Low flow–low gradient aortic stenosis (editorial), 1856
Morphology of bicuspid aortic valve in children and adolescents, 1648
MRI guided transcatheter implantation of a prosthetic valve in aortic valve position: feasibility study in swine, 2247
Relation of weights of operatively excised stenotic aortic valves to preoperative transvalvular peak systolic pressure gradients and to calculated aortic valve areas, 1847

Aortic valve replacement
Durability of pericardial versus porcine aortic valves, 384
Should coronary artery bypass graft surgery patients with mild or moderate aortic stenosis undergo concomitant aortic valve replacement?, 1241

Aortico–left ventricular tunnel
Aortico–left ventricular tunnel: 35-year experience, 446

Aorto-ostial lesions
Clinical and angiographic outcome after sirolimus-eluting stent implantation in aorto-ostial lesions, 967

Aorto-pulmonary artery shunt
Moderate and chronic hemodynamic overload of sheep atria induces reversible cellular electrophysiologic abnormalities and atrial vulnerability, 1918

Aorto-saphenous anastomoses
Severe ostial saphenous vein graft disease leading to acute coronary syndromes after proximal aorto-saphenous anastomoses with the Symmetry Bypass Connector Device (letter), 1140

Apnea
Cardiac resynchronization therapy improves central sleep apnea and Cheyne-Stokes respiration in patients with chronic heart failure, 68

Apolipoprotein A-I
Apolipoprotein A-I and high-density lipoprotein (editorial), 1436
Novel apolipoproteinA-I mutation (L178P) leads to endothelial dysfunction, increased arterial wall thickness, and premature coronary artery disease, 1429

Arrhythmias
See also Atrial fibrillation; Atrial flutter; Ventricular fibrillation; Ventricular tachycardia
Athens, athletes, and arrhythmias: the cardiologist's dilemma (editorial), 1059
Cardiac arrhythmias, 16A
Cardiac arrhythmias: the quest for a cure, 1155
Ephedrine increases ventricular arrhythmias in

conscious dogs after myocardial infarction, 1675
Impact of physical deconditioning on ventricular tachyarrhythmias in trained athletes, 1053
Increased incidence of life-threatening ventricular arrhythmias in implantable defibrillator patients after the World Trade Center attack, 1261
More on the history of arrhythmia in long QT syndrome (letter), 1339
Risk of proarrhythmic events in the Atrial Fibrillation Follow-up Investigation of Rhythm Management (AFFIRM) Study, 1276
World Trade Center attack: increased frequency of defibrillator shocks for ventricular arrhythmias in patients living remotely from New York City, 1265

Arterial wall thickness
Novel apolipoproteinA-I mutation (L178P) leads to endothelial dysfunction, increased arterial wall thickness, and premature coronary artery disease, 1429

Arteriotomy closure devices
Vascular complications associated with arteriotomy closure devices in patients undergoing percutaneous coronary procedures, 1200

Aspirin
Aspirin "allergy" and resistance (letter), 939
Co-administration of nitric oxide-aspirin (NCX-4016) and aspirin prevents platelet and monocyte activation and protects against gastric damage induced by aspirin in humans, 635
Theriac found? Nitric oxide-aspirin and the search for the universal cure (editorial), 642

Atherosclerosis
See also Coronary artery disease
African Americans and Caucasians have a similar prevalence of coronary calcium in the Dallas Heart Study, 1011
Association among plasma levels of monocyte chemoattractant protein-1, traditional cardiovascular risk factors, and subclinical atherosclerosis, 1812
Association among renal insufficiency, pharmacotherapy, and outcomes in 6,427 patients with heart failure and coronary artery disease, 1587
Atherosclerosis of the aorta: risk factor, risk marker, or innocent bystander?, 1018
Dietary and exercise intervention slows menopause-associated progression of subclinical atherosclerosis as measured by intima-media thickness of the carotid arteries, 579
Low cholesterol, mortality, and quality of life in old age during a 39-year follow-up, 1002
Noninvasive identification of patients with early coronary atherosclerosis by assessment of digital reactive hyperemia, 2137
Plasma leptin and prognosis in patients with established coronary atherosclerosis, 1819
Relationship between stress-induced myocardial ischemia and atherosclerosis measured by coronary calcium tomography, 923

Atherosclerotic plaque
Focal and multi-focal plaque macrophage distributions in patients with acute and stable presentations of coronary artery disease, 972

Atherothrombosis
New aspects in the pathogenesis of diabetic atherothrombosis, 2293
Year in atherothrombosis, 2099

Athletes
Association of fat-free mass and training status with left ventricular size and mass in endurance-trained athletes, 892
Athens, athletes, and arrhythmias: the cardiologist's dilemma (editorial), 1059
Definition of physiological hypertrophy in ultramarathon athletes (letter), 469
Echocardiographic limits of left ventricular remodeling in athletes (letter), 469
Impact of physical deconditioning on ventricular tachyarrhythmias in trained athletes, 1053
Serial left ventricular adaptations in world-class professional cyclists, 144
Suggested new upper limit of physiologic cardiac hypertrophy determined in Japanese ultramarathon runners must be interpreted cautiously (letter), 470

Atrial fibrillation
The AFFIRM study: approaches to control rate in atrial fibrillation (letter), 2418
Angiotensin-converting enzyme inhibition in hypertensive patients is associated with a reduction in the occurrence of atrial fibrillation, 159
Cardiac arrhythmias, 16A
Clinical prediction role for atrial fibrillation after coronary artery bypass grafting, 1248
Comparative effects of antiplatelet, anticoagulant, or combined therapy in patients with valvular and nonvalvular atrial fibrillation, 1557
Drug-induced atrial fibrillation, 2117
Electrophysiologic and electroanatomic change in the human atrium associated with age, 109
Excess long-term mortality in patients with new-onset atrial fibrillation following coronary artery bypass grafting (letter), 2415
Ibutilide added to propafenone for the conversion of atrial fibrillation and atrial flutter, 859
Increasing randomness of heart rate could explain increased heart rate variability preceding onset of atrial fibrillation (letter), 668
Left atrial tachycardia after circumferential pulmonary vein ablation for atrial fibrillation, 1071
Moderate and chronic hemodynamic overload of sheep atria induces reversible cellular electrophysiologic abnormalities and atrial vulnerability, 1918
Prognostic implications of atrial fibrillation in patients undergoing myocardial perfusion single-photon emission computed tomography, 1062
Randomized controlled trial of RSD1235, a novel antiarrhythmic agent, in the treatment of recent onset atrial fibrillation, 2355
Rate control in atrial fibrillation (letter), 2417
Reconsidering combined antiplatelet and anticoagulant therapy in atrial fibrillation (editorial), 1567
Risk of proarrhythmic events in the Atrial Fibrillation Follow-up Investigation of Rhythm Management (AFFIRM) study, 1276
Safety and efficacy of intravenously administered tedisamil for rapid conversion of recent-onset atrial fibrillation or atrial flutter, 99
Serum potassium level and risk of postoperative atrial fibrillation in patients undergoing cardiac surgery (letter), 938
Time courses and quantitative analysis of atrial fibrillation episode number and duration after circular plus linear left atrial lesions, 869
Use of ibutilide in cardioversion of patients with atrial fibrillation or atrial flutter treated with class IC agents, 864

Atrial flutter
Ibutilide added to propafenone for the conversion of atrial fibrillation and atrial flutter, 859
Importance of ablating all potential right atrial flutter circuits in postcardiac surgery patients, 409
Non-contact mapping to guide radiofrequency ablation of atypical right atrial flutter, 1080
Safety and efficacy of intravenously administered tedisamil for rapid conversion of recent-onset atrial fibrillation or atrial flutter, 99
Use of ibutilide in cardioversion of patients with atrial fibrillation or atrial flutter treated with class IC agents, 864

Atrial natriuretic peptide
Acute changes in circulating natriuretic peptide levels in relation to myocardial ischemia, 1988
Exercise release of cardiac natriuretic peptides is markedly enhanced when patients with coronary artery disease are treated medically by beta-blockers (letter), 1341

Atrial septal defects
Incidence and clinical course of thrombus formation on atrial septal defect and patent foramen ovale closure devices (letter), 1714
Risk of thrombus formation on devices used to close transcatheter atrial septal defect and patent foramen ovale (letter), 1712
Transcatheter intracardiac device implantation for atrial level defects and thrombosis: a call for randomized, controlled data (letter), 1713

Atrial tachycardia
Left atrial tachycardia after circumferential pulmonary vein ablation for atrial fibrillation, 1071

Atrioventricular block
Drug-induced atrioventricular block: prognosis after discontinuation of the culprit drug, 105

Atrium
Electrophysiologic and electroanatomic change in the human atrium associated with age, 109

Autoantibodies
Potential role of humoral immunity in cardiac dysfunction of patients suffering from dilated cardiomyopathy, 829

Automated external defibrillators
Program encouraging early defibrillation results in improved in-hospital resuscitation efficacy, 846
Truth about shocking ventricular tachycardia and ventricular fibrillation (editorial), 853

Balloon angioplasty
Randomized trial of coronary stenting versus balloon angioplasty as a rescue intervention after failed thrombolysis in patients with acute myocardial infarction, 2073
Should we use the cutting balloon in patients with in-stent restenosis (letter), 2416

Below-knee critical limb ischemia
Primary stent supported angioplasty for treatment of below-knee critical limb ischemia and severe claudication: early and one year outcomes, 2307

Beta-blockers
Exercise release of cardiac natriuretic peptides is markedly enhanced when patients with coronary artery disease are treated medically by beta-blockers (letter), 1341
Therapeutic update: non-selective beta- and alpha-adrenergic blockade in patients with coexistent chronic obstructive pulmonary disease and chronic heart failure, 497

Beta-myosin heavy chain
Comprehensive analysis of the beta-myosin heavy chain gene in 389 unrelated patients with hypertrophic cardiomyopathy, 602
Impact of beta-myosin heavy chain expression on cardiac function during stress, 2390
Beta-radiation
Direct stenting versus direct stenting followed by centered beta-radiation with intravascular ultrasound-guided dosimetry and long-term anti-platelet treatment, 528
Bethesda Conference
Introduction: the origins and implications of a growing shortage of cardiologists, 221
Summary of task force recommendations to address the growing shortage of cardiologists, 272
35th Bethesda Conference: cardiology's workforce crisis: a pragmatic approach, 216
Working group 1: how to increase the output of cardiologists, 233
Working group 2: how to encourage more women to choose a career in cardiology, 238
Working group 3: how to encourage more minorities to choose a career in cardiology, 240
Working group 4: international medical graduates and the cardiology workforce, 245
Working group 5: innovative care team models and processes that might enhance efficiency and productivity, 251
Working group 6: the role of technology to enhance clinical and educational efficiency, 256
Working group 7: the job "matching" process, 261
Working group 8: defining the different types of cardiovascular specialists and developing a new model for training general clinical cardiologists, 267
Bicuspid aortic valve
Bicuspid aortic valve is heritable, 138
Morphology of bicuspid aortic valve in children and adolescents, 1648
Bidirectional cavopulmonary anastomosis
Diagnostic assessment before Fontan operation in patients with bidirectional cavopulmonary anastomosis, 184
Bidirectional superior cavopulmonary anastomosis
Effects of carbon dioxide on oxygenation and systemic, cerebral, and pulmonary vascular hemodynamics after the bidirectional superior cavopulmonary anastomosis, 1501
Biomarkers
Association of elevated B-type natriuretic peptide levels with angiographic findings among patients with unstable angina and non–ST-segment elevation myocardial infarction, 564
Interleukin-10: biomarker or pathologic cytokine in fulminant myocarditis? (editorial), 1298
Prognostic role of B-type natriuretic peptide levels in patients with type 2 diabetes mellitus, 1047
Prognostic value of osteoprotegerin in heart failure after acute myocardial infarction, 1970
Value of plasma fibrin D-dimers for detection of acute aortic dissection, 804
Bivalirudin
Economic evaluation of bivalirudin with provisional glycoprotein IIb/IIIa inhibition versus heparin with routine glycoprotein IIb/IIIa inhibition for percutaneous coronary intervention, 1792
Lack of clopidogrel pretreatment effect on the relative efficacy of bivalirudin with provisional glycoprotein IIb/IIIa blockade compared to heparin with routine glycoprotein IIb/IIIa blockade, 1194
Biventricular pacing
Echocardiographic parameters of ventricular dyssynchrony validation in patients with heart failure using sequential biventricular pacing, 2157
Blood pressure
Does nondipping blood pressure profile contribute to vascular inflammation during sleep deprivation? (editorial), 1529
Bone marrow
Comparison of human skeletal myoblasts and bone marrow-derived $CD133^+$ progenitors for the repair of infarcted myocardium, 458
Brachytherapy
Brachytherapy: potential therapy for refractory coronary spasm, 1415
Direct stenting versus direct stenting followed by centered beta-radiation with intravascular ultrasound-guided dosimetry and long-term anti-platelet treatment, 528
Intracoronary brachytherapy after stenting de novo lesions in diabetic patients, 520
Vascular brachytherapy and coronary stenting for de novo lesions (editorial), 538
Bradykinin
Plasma level of oxidized low-density lipoprotein is an independent determinant of coronary macrovasomotor and microvasomotor responses induced by bradykinin, 451
B-type natriuretic peptide
Acute changes in circulating natriuretic peptide levels in relation to myocardial ischemia, 1988
Association of elevated B-type natriuretic peptide levels with angiographic findings among patients with unstable angina and non–ST-segment elevation myocardial infarction, 564
Brain natriuretic peptide as a predictor of sudden cardiac death in patients with myocardial infarction (letter), 1528
B-type natriuretic peptide at presentation and prognosis in patients with ST-segment elevation myocardial infarction, 335
Detection of exercise-induced ischemia by changes in B-type natriuretic peptides, 1980
Exercise release of cardiac natriuretic peptides is markedly enhanced when patients with coronary artery disease are treated medically by beta-blockers (letter), 1341
Measuring plasma B-type natriuretic peptide in heart failure, 740
N-terminal pro-brain natriuretic peptide in relation to inflammation, myocardial necrosis, and the effect of an invasive strategy in unstable coronary artery disease (letter), 1932
Primary results of the Rapid Emergency Department Heart Failure Outpatient Trial (REDHOT), 1328
Prognostic role of B-type natriuretic peptide levels in patients with type 2 diabetes mellitus, 1047
Wall stress modulates brain natriuretic production in pressure overload cardiomyopathy, 2349
Buerger's disease
Long-term survival and amputation risk in thromboangiitis obliterans (Buerger's disease), 2410
Caffeine
Smoking and caffeine have a synergistic detrimental effect on aortic stiffness and wave reflections, 1911
Calcium
Mechanical unloading improves intracellular Ca^{2+} regulation in rats with doxorubicin-induced cardiomyopathy, 2239
Calcium-channel blockers
Angiotensin-converting enzyme inhibition in hypertensive patients is associated with a reduction in the occurrence of atrial fibrillation, 159
Candesartan
Stroke prevention with the angiotensin II type-1 receptor blocker candesartan in elderly patients with isolated systolic hypertension, 1175
Carbon dioxide
Effects of carbon dioxide on oxygenation and systemic, cerebral, and pulmonary vascular hemodynamics after the bidirectional superior cavopulmonary anastomosis, 1501
Cardiac arrest
Cardiopulmonary resuscitation with a novel chest compression device in a porcine model of cardiac arrest: improved hemodynamics and mechanisms, 2214
Program encouraging early defibrillation results in improved in-hospital resuscitation efficacy, 846
Utilization of implantable cardioverter-defibrillators in survivors of cardiac arrest in the United States from 1996 to 2001, 855
Cardiac death
See also Sudden death
Incremental prognostic value of percentage of heart rate reserve achieved over myocardial perfusion single-photon emission computed tomography in the prediction of cardiac death and all-cause mortality, 423
Cardiac magnetic resonance imaging
Comprehensive approach to ischemic heart disease by CMR: are we there yet?, 2182
Cardiac memory
Heart does not have Alzheimer's disease (editorial), 1889
Cardiac output
Sublingual nitroglycerin used in routine tilt testing provokes a cardiac output-mediated vasovagal response, 588
Cardiac rehabilitation
Cardiac rehabilitation after myocardial infarction in the community, 988
Cardiac resynchronization therapy
Cardiac arrhythmias, 16A
Cardiac resynchronization therapy: a novel adjunct to the treatment and prevention of systemic right ventricular failure, 1927
Cardiac resynchronization therapy improves central sleep apnea and Cheyne-Stokes respiration in patients with chronic heart failure, 68
Cardiac resynchronization therapy in patients with narrow QRS (letter), 2096
Echocardiographic evaluation of cardiac resynchronization therapy: ready for routine clinical use?, 1
Feasibility of adjusting paced left ventricular activation by manipulating stimulus strength, 2249
Left ventricular dyssynchrony predicts response and prognosis after cardiac resynchronization therapy, 1834
Long-term retention of cardiac resynchronization therapy, 72
Mechanism for immediate reduction in mitral regurgitation after cardiac resynchronization therapy, 1619
Cardiac surgery
See also Surgery
Impact of delays to cardiac surgery (letter), 2094
Importance of ablating all potential right atrial

flutter circuits in postcardiac surgery patients, 409
Serum potassium level and risk of postoperative atrial fibrillation in patients undergoing cardiac surgery (letter), 938
Should coronary artery bypass graft surgery patients with mild or moderate aortic stenosis undergo concomitant aortic valve replacement?, 1241
Surgical ventricular restoration in the treatment of congestive heart failure due to post-infarction ventricular dilation, 1439

Cardiac transplantation
See Heart transplantation

Cardiodepressant antibodies
Potential role of humoral immunity in cardiac dysfunction of patients suffering from dilated cardiomyopathy, 829

Cardiogenic shock
Cardiac power is the strongest hemodynamic correlate of mortality in cardiogenic shock: a report from the SHOCK trial registry, 340
Hemodynamic effects of inhaled nitric oxide in right ventricular myocardial infarction and cardiogenic shock, 793
Serum levels of interleukin-10 on admission as a prognostic predictor of human fulminant myocarditis, 1292

Cardiologists
Introduction: the origins and implications of a growing shortage of cardiologists, 221
President's page: the appropriate cardiologist: responsible stewardship in a golden era of cardiology, 933
President's page: the promise of prevention: so, why aren't all cardiologists 'preventive?', 2083
President's page: the trust imperative: ethical choice always puts patient first, 1709
Summary of task force recommendations to address the growing shortage of cardiologists (Bethesda Conference), 272
Working group 1: how to increase the output of cardiologists (Bethesda Conference), 233
Working group 7: the job "matching" process (Bethesda Conference), 261
Working group 8: defining the different types of cardiovascular specialists and developing a new model for training general clinical cardiologists (Bethesda Conference), 267

Cardiology
35th Bethesda Conference: cardiology's workforce crisis: a pragmatic approach, 216
Disparities in cardiac care: rising to the challenge of Healthy People 2010, 503
Generic drugs in cardiology: will they reduce health care costs?, 10
Heart failure training, 1361
Identification of less-irradiating tube angulations in invasive cardiology, 1420
International medical graduates and the cardiology workforce, 1172
Pediatric cardiology and adult congenital heart disease, 23A
President's page: cardiology without borders: embracing a healthy global association, 1137
President's page: the appropriate cardiologist: responsible stewardship in a golden era of cardiology, 933
Time of accelerated change in academic cardiovascular medicine, 1957
Working group 2: how to encourage more women to choose a career in cardiology (Bethesda Conference), 238
Working group 3: how to encourage more minorities to choose a career in cardiology (Bethesda Conference), 240
Working group 4: international medical graduates and the cardiology workforce (Bethesda Conference), 240
Working group 5: innovative care team models and processes that might enhance efficiency and productivity (Bethesda Conference), 251
Working group 6: the role of technology to enhance clinical and educational efficiency (Bethesda Conference), 256
Working group 7: the job "matching" process (Bethesda Conference), 261
Working group 8: defining the different types of cardiovascular specialists and developing a new model for training general clinical cardiologists (Bethesda Conference), 267
Year in health care delivery and outcomes research, 1130

Cardiomyocytes
Inhibition of ErbB2 causes mitochondrial dysfunction in cardiomyocytes: implications for herceptin induced cardiomyopathy, 2231
Rapid electrical stimulation of contraction modulates gap junction protein in neonatal rat cultured cardiomyocytes, 914

Cardiomyopathy
See also Dilated cardiomyopathy; Hypertrophic cardiomyopathy; Ischemic cardiomyopathy
Inhibition of ErbB2 causes mitochondrial dysfunction in cardiomyocytes: implications for herceptin induced cardiomyopathy, 2231
Mechanical unloading improves intracellular Ca^{2+} regulation in rats with doxorubicin-induced cardiomyopathy, 2239

Cardioprotection
Evaluation of cardioprotective effects of recombinant soluble P-selectin glycoprotein ligand-immunoglobulin in myocardial ischemia-reperfusion injury by real-time myocardial contrast echocardiography, 887

Cardiopulmonary resuscitation
Cardiopulmonary resuscitation with a novel chest compression device in a porcine model of cardiac arrest: improved hemodynamics and mechanisms, 2214

Cardiorespiratory fitness
Association between cardiorespiratory fitness and C-reactive protein in subjects with the metabolic syndrome, 2003

Cardiovascular disease
Cardiovascular therapies and risk for development of diabetes, 509
Genotypes associated with myocardial infarction risk are more common in African Americans than in European Americans, 165
Heritability and correlates of intercellular adhesion molecule-1 in the Framingham Offspring Study, 168
Subclavian artery stenosis: prevalence, risk factors, and association with cardiovascular diseases, 618

Cardiovascular drugs
Development of cardiovascular drugs: the United States regulatory milieu from the perspective of a participating non-regulator, 2285

Cardiovascular events
Serum levels of thiobarbituric acid reactive substances predict cardiovascular events in patients with coronary artery disease, 1996

Cardiovascular magnetic resonance
Functional significance of stenoses in coronary artery bypass grafts, 1877

Cardiovascular medicine
Time of accelerated change in academic cardiovascular medicine, 1957

Cardioversion
Use of ibutilide in cardioversion of patients with atrial fibrillation or atrial flutter treated with class IC agents, 864

Carotid arteries
Detection of retained microbubbles in carotid arteries with real-time low mechanical index imaging in the setting of endothelial dysfunction, 1036
Dietary and exercise intervention slows menopause-associated progression of subclinical atherosclerosis as measured by intima-media thickness of the carotid arteries, 579

Carvedilol
Impact of initiating carvedilol before angiotensin-converting enzyme inhibitor therapy on cardiac function in newly diagnosed heart failure, 1825

Catheters
ACC/ACP/SCAI/SVMB/SVS clinical competence statement on vascular medicine and catheter-based peripheral vascular interventions, 941
Integration of cardiac magnetic resonance imaging with three-dimensional electroanatomical mapping to guide left ventricular catheter manipulation: feasibility in a porcine model of heated myocardial infarction, 2202

Caucasians
African Americans and Caucasians have a similar prevalence of coronary calcium in the Dallas Heart Study, 1011

Cavopulmonary anastomosis
Diagnostic assessment before Fontan operation in patients with bidirectional cavopulmonary anastomosis, 184
Effects of carbon dioxide on oxygenation and systemic, cerebral, and pulmonary vascular hemodynamics after the bidirectional superior cavopulmonary anastomosis, 1501

$CD133^+$ progenitors
Comparison of human skeletal myoblasts and bone marrow-derived $CD133^+$ progenitors for the repair of infarcted myocardium, 458

Cell signaling pathways
Multiple, brief coronary occlusions during early reperfusion protect rabbit hearts by targeting cell signaling pathways, 1103

Cell transplantation
Injectable fibrin scaffold improves cell transplant survival, reduces infarct expansion, and induces neovasculature formation in ischemic myocardium, 654
Transplantation of progenitor cells and regeneration enhancement in acute myocardial infarction, 1690

Central sleep apnea
Cardiac resynchronization therapy improves central sleep apnea and Cheyne-Stokes respiration in patients with chronic heart failure, 68

Cerebral protection
Cerebroprotection mediated by angiotensin II (letter), 2097
Effect of two different neuroprotection systems on microembolization during carotid artery stenting, 1966

Chest compression device
Cardiopulmonary resuscitation with a novel chest compression device in a porcine model of cardiac arrest: improved hemodynamics and mechanisms, 2214

Cheyne-Stokes respiration
Cardiac resynchronization therapy improves central sleep apnea and Cheyne-Stokes respiration in patients with chronic heart failure, 68
Children
Improved outcomes of pediatric dilated cardiomyopathy with utilization of heart transplantation, 391
Morphology of bicuspid aortic valve in children and adolescents, 1648
Pediatric cardiology and adult congenital heart disease, 23A
Cholesterol
See also Hypercholesterolemia
Implications of recent clinical trials for the National Cholesterol Education Program Adult Treatment Panel III guidelines, 720
Low and lowered cholesterol and total mortality (editorial), 1009
Low cholesterol, mortality, and quality of life in old age during a 39-year follow-up, 1002
Chronic kidney disease
Impact of mild or moderate chronic kidney disease on the frequency of restenosis, 1786
Renal patient with coronary artery disease, 1343
Chronic obstructive pulmonary disease
Therapeutic update: non-selective beta- and alpha-adrenergic blockade in patients with coexistent chronic obstructive pulmonary disease and chronic heart failure, 497
Chronotropic incompetence
Chronotropic incompetence (editorial), 431
Incremental prognostic value of percentage of heart rate reserve achieved over myocardial perfusion single-photon emission computed tomography in the prediction of cardiac death and all-cause mortality, 423
Cilostazol
Cilostazol inhibits leukocyte integrin Mac-1, leading to a potential reduction in restenosis after coronary stent implantation, 1408
Claudication
Primary stent supported angioplasty for treatment of below-knee critical limb ischemia and severe claudication: early and one year outcomes, 2307
Clopidogrel
Influence of treatment duration with a 600-mg dose of clopidogrel prior to percutaneous coronary revascularization, 2133
Lack of clopidogrel pretreatment effect on the relative efficacy of bivalirudin with provisional glycoprotein IIb/IIIa blockade compared to heparin with routine glycoprotein IIb/IIIa blockade, 1194
Lack of efficacy of clopidogrel pre-treatment in the prevention of myocardial damage after elective stent implantation, 20
Coagulation
Adherence to the Mediterranean diet attenuates inflammation and coagulation process in healthy adults, 152
Coarctation of the aorta
Follow-up of aortic coarctation repair in neonates, 188
Risk factors for aortic complications in adults with coarctation of the aorta, 1641
Collateral circulation
Reduced collateral circulation to the infarct-related artery in elderly patients with acute myocardial infarction, 28
Collateral flow index
Right atrial pressure: can it be ignored when calculating fractional flow reserve and collateral flow index (letter), 2089
Community
Cardiac rehabilitation after myocardial infarction in the community, 988
Current burden of sudden cardiac death: multiple source surveillance versus retrospective death certificate-based review in a large U.S. community, 1268
Diagnosis of heart failure in the community, 1601
Computed tomography
See also Multidetector computed tomography; Single-photon emission computed tomography
Noninvasive detection of coronary lesions using 16-detector multislice spiral computed tomography technology, 1230
Noninvasive imaging, 25A
Noninvasive visualization of coronary artery bypass grafts using 16-detector row computed tomography, 1224
Year in cardiac imaging, 1937
Congenital heart disease
See also specific disorder
Pediatric cardiology and adult congenital heart disease, 23A
Connexin
Rapid electrical stimulation of contraction modulates gap junction protein in neonatal rat cultured cardiomyocytes, 914
Continuing medical education
Minding the gap: can continuing medical education bridge the quality chasm (editorial), 199
President's page: ACC's continuing education programs: setting up systems to meet members' changing needs, 206
State-mandated continuing medical education and the use of proven therapies in patients with an acute myocardial infarction, 192
Working group 6: the role of technology to enhance clinical and educational efficiency (Bethesda Conference), 256
Contractile reserve
Regional coronary flow and contractile reserve in patients with idiopathic dilated cardiomyopathy, 2027
Contractility
Altered myocardial Ca^{2+} cycling after left ventricular assist device support in the failing human heart, 837
Contrast agents
N-acetylcysteine versus fenoldopam mesylate to prevent contrast agent-associated nephrotoxicity, 762
Contrast echocardiography
Accurate and reproducible measurement of left ventricular volume and ejection fraction by contrast echocardiography, 1030
Contrast-induced nephropathy
Contrast nephropathy: review focusing on prevention, 1763
Contrast-induced nephropathy in patients undergoing primary angioplasty for acute myocardial infarction, 1780
Simple risk score for prediction of contrast-induced nephropathy after percutaneous coronary intervention, 1393
Coronary arteries
Intravascular ultrasound assessment of angiographic filling defects in native coronary arteries: do they always contain thrombi? (letter), 2087
Coronary artery bypass grafting
ACC/AHA 2004 guideline update for coronary artery bypass graft surgery: summary article, 1146
Clinical prediction role for atrial fibrillation after coronary artery bypass grafting, 1248
Excess long-term mortality in patients with new-onset atrial fibrillation following coronary artery bypass grafting (letter), 2415
Long term patency of saphenous vein and left internal mammary artery grafts after coronary artery bypass surgery: results from a Department of Veterans Affairs Cooperative Surgery, 2149
Risk score to estimate the likelihood of coronary artery bypass surgery during the index hospitalization among patients with unstable angina and non–ST-segment elevation myocardial infarction, 799
Gender as a risk factor in young, not in old women undergoing CABG, 2413
Should coronary artery bypass graft surgery patients with mild or moderate aortic stenosis undergo concomitant aortic valve replacement?, 1241
Coronary artery bypass grafts
Functional significance of stenoses in coronary artery bypass grafts, 1877
Noninvasive visualization of coronary artery bypass grafts using 16-detector row computed tomography, 1224
Coronary artery disease
See also Atherosclerosis; Coronary heart disease
Association among renal insufficiency, pharmacotherapy, and outcomes in 6,427 patients with heart failure and coronary artery disease, 1587
Association of gene polymorphisms with coronary artery disease in low- and high-risk subjects defined by conventional risk factors (letter), 209
Comparative accuracy of real time myocardial contrast perfusion imaging and wall motion analysis during dobutamine stress echocardiography for the diagnosis of coronary artery disease, 2185
Comparative effects of AT1-antagonism and angiotensin-converting enzyme inhibition on markers of inflammation and platelet aggregation in patients with coronary artery disease, 362
Diagnostic performance of coronary magnetic resonance angiography as compared against conventional x-ray angiography, 1867
Differences in mechanisms and outcomes of syncope in patients with coronary disease or idiopathic left ventricular dysfunction assessed by electrophysiologic testing, 594
Exercise release of cardiac natriuretic peptides is markedly enhanced when patients with coronary artery disease are treated medically by beta-blockers (letter), 1341
Focal and multi-focal plaque macrophage distributions in patients with acute and stable presentations of coronary artery disease, 972
Interleukin-10 serum levels and systemic endothelial vasoreactivity in patients with coronary artery disease, 44
Native coronary disease progression exceeds failed revascularization as cause of angina after five years in the Bypass Angioplasty Revascularization Investigation (BARI), 766
Novel apolipoproteinA-I mutation (L178P) leads to endothelial dysfunction, increased arterial wall thickness, and premature coronary artery disease, 1429
N-terminal pro-brain natriuretic peptide in relation

to inflammation, myocardial necrosis, and the effect of an invasive strategy in unstable coronary artery disease (letter), 1932
Quantitative hyperemic reactivity in opposed limbs during myocardial perfusion imaging, 1473
Renal patient with coronary artery disease, 1343
Serum levels of thiobarbituric acid reactive substances predict cardiovascular events in patients with coronary artery disease, 1996

Coronary calcium
African Americans and Caucasians have a similar prevalence of coronary calcium in the Dallas Heart Study, 1011
Noninvasive imaging, 25A

Coronary calcium tomography
Relationship between stress-induced myocardial ischemia and atherosclerosis measured by coronary calcium tomography, 923

Coronary flow
Decrease of plaque volume during percutaneous coronary intervention has a negative impact on coronary flow in acute myocardial infarction, 300

Coronary flow velocity reserve
Coronary flow velocity reserve does not correlate with TIMI frame count in patients undergoing non-emergency percutaneous coronary intervention, 778
Regional coronary flow and contractile reserve in patients with idiopathic dilated cardiomyopathy, 2027

Coronary heart disease
See also Coronary artery disease
Clinical outcomes in managed-care patients with coronary heart disease treated aggressively in lipid-lowering disease management clinics, 1772
Is depression a risk factor for coronary heart disease (letter), 472
Leukocyte count and coronary heart disease, 1945

Coronary lesions
Noninvasive detection of coronary lesions using 16-detector multislice spiral computed tomography technology, 1230
Oral rapamycin to inhibit restenosis after stenting of de novo coronary lesions, 1386

Coronary magnetic resonance angiography
Diagnostic performance of coronary magnetic resonance angiography as compared against conventional x-ray angiography, 1867

Coronary occlusions
Multiple, brief coronary occlusions during early reperfusion protect rabbit hearts by targeting cell signaling pathways, 1103
Prevention of lesion recurrence in chronic total coronary occlusions by paclitaxel-eluting stents, 2301
Ultrasound energy improves myocardial perfusion in the presence of coronary occlusion, 1454

Coronary slow flow phenomenon
Angiographic and clinical benefits of mibefradil in the coronary slow flow phenomenon, 57

Coronary spasm
Brachytherapy: potential therapy for refractory coronary spasm, 1415

Coronary veins
Myocardial gene transfer by selective pressure-regulated retroinfusion of coronary veins, 1124

C-reactive protein
Association between cardiorespiratory fitness and C-reactive protein in subjects with the metabolic syndrome, 2003
B-type natriuretic peptide at presentation and prognosis in patients with ST-segment elevation myocardial infarction, 335
Does nondipping blood pressure profile contribute to vascular inflammation during sleep deprivation? (editorial), 1529
Effect of six months' exercise training on C-reactive protein levels in healthy elderly subjects, 2411
Interleukin-10 serum levels and systemic endothelial vasoreactivity in patients with coronary artery disease, 44
Yin and yang of arterial inflammation (editorial), 50

Creatine kinase-MB
Differential mortality risk of postprocedural creatine kinase-MB elevation following successful versus unsuccessful stent procedures, 1210
Lack of efficacy of clopidogrel pre-treatment in the prevention of myocardial damage after elective stent implantation, 20

Cryptogenic stroke
Closure of patent foramen ovale in cryptogenic stroke (editorial), 759
Comparison of medical treatment with percutaneous closure of patent foramen ovale in patients with cryptogenic stroke, 750

C-terminal mutations
Mutation site-specific differences in arrhythmic risk and sensitivity to sympathetic stimulation in the LQT1 form of long QT syndrome, 117

Cytokines
Interleukin-10: biomarker or pathologic cytokine in fulminant myocarditis? (editorial), 1298
Serum levels of interleukin-10 on admission as a prognostic predictor of human fulminant myocarditis, 1292

D-dimers
Value of plasma fibrin D-dimers for detection of acute aortic dissection, 804

Deconditioning
Impact of physical deconditioning on ventricular tachyarrhythmias in trained athletes, 1053

Defibrillation
Is defibrillation testing required for defibrillator implantation?, 88
Program encouraging early defibrillation results in improved in-hospital resuscitation efficacy, 846

Defibrillators
See also Automated external defibrillators; Implantable cardioverter-defibrillators
Does it make sense to train plumbers as electricians?, 1358
Program encouraging early defibrillation results in improved in-hospital resuscitation efficacy, 846
Truth about shocking ventricular tachycardia and ventricular fibrillation (editorial), 853
Utilization of implantable cardioverter-defibrillators in survivors of cardiac arrest in the United States from 1996 to 2001, 855

Depression
Depression and heart failure (letter), 2253
Depression as a risk factor for post-MI mortality (letter), 472
Depression in older adults with heart failure (letter), 2254
Influence of age, gender, and race on the prevalence of depression in heart failure patients (letter), 2255
Is depression a risk factor for coronary heart disease (letter), 472
Predictors of the onset of depressive symptoms in heart failure patients, 2333

Diabetes mellitus
Cardiovascular therapies and risk for development of diabetes, 509
Effects of pravastatin on progression of glucose intolerance and cardiovascular remodeling in a type II diabetes model, 904
Intracoronary brachytherapy after stenting de novo lesions in diabetic patients, 520
New aspects in the pathogenesis of diabetic atherothrombosis, 2293
Prognostic role of B-type natriuretic peptide levels in patients with type 2 diabetes mellitus, 1047
Reduced glomerular filtration rate in asymptomatic diabetic patients—predictor of increased risk for cardiac events independent of albuminuria, 2142
Sympathetic dysfunction in type 1 diabetes: association with impaired myocardial blood flow reserve and diastolic dysfunction, 2368

Diastolic dysfunction
Diastolic dysfunction, 1543
Sympathetic dysfunction in type 1 diabetes: association with impaired myocardial blood flow reserve and diastolic dysfunction, 2368

Diastolic function
Tissue Doppler-derived myocardial acceleration for evaluation of left ventricular diastolic function, 1459

Diet
Adherence to the Mediterranean diet attenuates inflammation and coagulation process in healthy adults, 152
Diet and exercise for perimenopausal women (editorial), 586
Dietary and exercise intervention slows menopause-associated progression of subclinical atherosclerosis as measured by intima-media thickness of the carotid arteries, 579
Diet–heart hypothesis: an evolutionary support (letter), 1934
High-protein diets: putting rumors to rest (letter), 1526

Diffusion capacity
Effects of PDE_5 inhibition with sildenafil on pulmonary hemodynamics and diffusion capacity, exercise ventilatory efficiency and oxygen uptake kinetics, in chronic heart failure, 2339

Dilated cardiomyopathy
Differences in mechanisms and outcomes of syncope in patients with coronary disease or idiopathic left ventricular dysfunction assessed by electrophysiologic testing, 594
Do cypher gene mutations cause left ventricular noncompaction with subclinical myopathy? (letter), 1139
Genetics of dilated cardiomyopathy (editorial), 2041
Improved outcomes of pediatric dilated cardiomyopathy with utilization of heart transplantation, 391
Insulin resistance in idiopathic dilated cardiomyopathy, 78
Potential role of humoral immunity in cardiac dysfunction of patients suffering from dilated cardiomyopathy, 829
Regional coronary flow and contractile reserve in patients with idiopathic dilated cardiomyopathy, 2027
Severe disease expression of cardiac troponin C and T mutations in patients with idiopathic dilated cardiomyopathy, 2033
Tcap gene mutations in hypertrophic

cardiomyopathy and dilated cardiomyopathy, 2192
Dobutamine stress
Strain echocardiography tracks dobutamine-induced decrease in regional myocardial perfusion in nonocclusive coronary stenosis, 1664
Dobutamine stress echocardiography
Cardiac events in patients with negative maximal versus negative submaximal dobutamine echocardiograms undergoing noncardiac surgery, 82
Comparative accuracy of real time myocardial contrast perfusion imaging and wall motion analysis during dobutamine stress echocardiography for the diagnosis of coronary artery disease, 2185
Doppler echocardiography
Diastolic dysfunction, 1543
Doppler imaging
Tissue Doppler-derived myocardial acceleration for evaluation of left ventricular diastolic function, 1459
Doppler ultrasound
Quantification of stenotic mitral valve area with magnetic resonance imaging and comparison with Doppler ultrasound, 133
Doxorubicin-induced cardiomyopathy
Mechanical unloading improves intracellular Ca^{2+} regulation in rats with doxorubicin-induced cardiomyopathy, 2239
Drug(s)
Development of cardiovascular drugs: the United States regulatory milieu from the perspective of a participating non-regulator, 2285
Drug-induced atrial fibrillation, 2117
Drug-induced atrioventricular block: prognosis after discontinuation of the culprit drug, 105
Generic drugs in cardiology: will they reduce health care costs?, 10
Drug-eluting stents
Actinomycin-eluting stent for coronary revascularization, 1363
Clinical and angiographic outcome after sirolimus-eluting stent implantation in aorto-ostial lesions, 967
High-dose 7-hexanoyltaxol-eluting stent with polymer sleeves for coronary revascularization, 1368
Preclinical restenosis models and drug-eluting stents, 1373
Prevention of lesion recurrence in chronic total coronary occlusions by paclitaxel-eluting stents, 2301
Type D personality predicts death or myocardial infarction after bare metal stent or sirolimus-eluting stent implantation, 997
Dyssynchrony
Left ventricular dyssynchrony predicts response and prognosis after cardiac resynchronization therapy, 1834
Echocardiography
Accurate and reproducible measurement of left ventricular volume and ejection fraction by contrast echocardiography, 1030
Cardiac events in patients with negative maximal versus negative submaximal dobutamine echocardiograms undergoing noncardiac surgery, 82
Comparative accuracy of real time myocardial contrast perfusion imaging and wall motion analysis during dobutamine stress echocardiography for the diagnosis of coronary artery disease, 2185
Diastolic dysfunction, 1543
Echocardiographic evaluation of cardiac resynchronization therapy: ready for routine clinical use?, 1
Echocardiographic limits of left ventricular remodeling in athletes (letter), 469
Echocardiographic parameters of ventricular dyssynchrony validation in patients with heart failure using sequential biventricular pacing, 2157
Evaluation of cardioprotective effects of recombinant soluble P-selectin glycoprotein ligand-immunoglobulin in myocardial ischemia-reperfusion injury by real-time myocardial contrast echocardiography, 887
Meeting highlights of the 15th annual scientific sessions of The American Society of Echocardiography: June 26–30, 2004, 2111
Noninvasive imaging, 25A
Prevalence and severity of paravalvular regurgitation in the Artificial Valve Endocarditis Reduction Trial (AVERT) Echocardiography Study, 1467
Quantification of stenotic mitral valve area with magnetic resonance imaging and comparison with Doppler ultrasound, 133
Reproducibility and accuracy of echocardiographic measurements of left ventricular parameters using real-time three-dimensional echocardiography, 878
Strain echocardiography tracks dobutamine-induced decrease in regional myocardial perfusion in nonocclusive coronary stenosis, 1664
Editorials
Age-associated cardiovascular changes are the substrate for poor prognosis with myocardial infarction, 35
An offer that can't (or shouldn't) be refused, 467
Apolipoprotein A-I and high-density lipoprotein, 1436
Athens, athletes, and arrhythmias: the cardiologist's dilemma, 1059
Choice of valve prostheses, 389
Chronotropic incompetence, 431
Citius, Altius, Fortius (the Olympic Motto: swifter, higher, stronger), 150
Clarifying the effects of adrenergic receptor polymorphisms by measuring synaptic parameters, 2016
Closure of patent foramen ovale in cryptogenic stroke, 759
Did we enjoy the debate but forget the patient?, 775
Diet and exercise for perimenopausal women, 586
Diminishing returns . . . and too many choices . . . the sage of pharmacologic therapy to reduce the complications of percutaneous coronary intervention, 25
Dismantling mandates in the treatment of heart failure, 1831
Do regional deformation indexes reflect regional perfusion in all ischemic substrates?, 1672
Does nondipping blood pressure profile contribute to vascular inflammation during sleep deprivation?, 1529
Economic impact of new interventional therapies, 1809
Fallot's tetralogy and pregnancy, 181
Furosemide in the long-term management of heart failure, 1308
Genetics of dilated cardiomyopathy, 2041
Heart disease leaves its mark, 1584
Heart does not have Alzheimer's disease, 1889
Heart failure in the emergency department, 1334
Interleukin-10: biomarker or pathologic cytokine in fulminant myocarditis?, 1298
Ischemia, revascularization, and perioperative troponin elevation after vascular surgery, 576
Left ventricular hypertrophy in hypertrophic cardiomyopathy, 406
Long-term therapy with organic nitrates, 632
Low and lowered cholesterol and total mortality, 1009
Low flow–low gradient aortic stenosis, 1856
Minding the gap: can continuing medical education bridge the quality chasm, 199
Mobilizing cells to the injured myocardium, 1521
No reflow and the quest to achieve optimal perfusion during the acute phase of myocardial infarction, 313
Novel technique to assess flow-mediated vasodilation, 1478
Patient safety: A(nother) call for action, 1337
Percutaneous valve replacement and repair, 1662
Platelet disaggregation, 324
Postconditioning, 1111
Postexercise severe ventricular ectopy in heart failure patients, 827
Q-wave and non–Q-wave myocardial infarctions through the eyes of cardiac magnetic resonance imaging, 561
Reappraisal of implant testing of implantable cardioverter defibrillators, 92
Reconsidering combined antiplatelet and anticoagulant therapy in atrial fibrillation, 1567
Rescue angioplasty, 297
Skeleton key to vascular disease, 1977
Theriac found? Nitric oxide-aspirin and the search for the universal cure, 642
Thrombolysis In Myocardial Infarction Risk Index, 790
Truth about shocking ventricular tachycardia and ventricular fibrillation, 853
Vascular brachytherapy and coronary stenting for de novo lesions, 538
Wanted! The best cell for cardiac regeneration, 464
What you like . . . what you don't, 931
Yin and yang of arterial inflammation, 50
Education
Minding the gap: can continuing medical education bridge the quality chasm (editorial), 199
President's page: ACC's continuing education programs: setting up systems to meet members' changing needs, 206
State-mandated continuing medical education and the use of proven therapies in patients with an acute myocardial infarction, 192
Working group 6: the role of technology to enhance clinical and educational efficiency (Bethesda Conference), 256
Ejection fraction
Accurate and reproducible measurement of left ventricular volume and ejection fraction by contrast echocardiography, 1030
Diastolic dysfunction, 1543
Elastance
Age and gender affect ventricular-vascular coupling during aerobic exercise, 611
Elderly
See also Age
Age-associated cardiovascular changes are the substrate for poor prognosis with myocardial infarction (editorial), 35
Cardiac rehabilitation after myocardial infarction in the community, 988
Effect of six months' exercise training on C-reactive protein levels in healthy elderly subjects, 2411

Reduced collateral circulation to the infarct-related artery in elderly patients with acute myocardial infarction, 28
Stroke prevention with the angiotensin II type-1 receptor blocker candesartan in elderly patients with isolated systolic hypertension, 1175

Electrical stimulation
Rapid electrical stimulation of contraction modulates gap junction protein in neonatal rat cultured cardiomyocytes, 914

Electroanatomical mapping
Integration of cardiac magnetic resonance imaging with three-dimensional electroanatomical mapping to guide left ventricular catheter manipulation: feasibility in a porcine model of heated myocardial infarction, 2202

Electrocardiogram
Electrocardiogram during sinus rhythm and tachycardia in patients with Mahaim fibers, 1626

Electrophysiology
Differences in mechanisms and outcomes of syncope in patients with coronary disease or idiopathic left ventricular dysfunction assessed by electrophysiologic testing, 594
Electrophysiologic and electroanatomic change in the human atrium associated with age, 109
Importance of ablating all potential right atrial flutter circuits in postcardiac surgery patients, 409
Increased incidence of life-threatening ventricular arrhythmias in implantable defibrillator patients after the World Trade Center attack, 1261
Is defibrillation testing required for defibrillator implantation?, 88
Patient alert in implantable cardioverter defibrillators: toy or tool?, 95

Embolism
See also Thrombosis
Cost-effectiveness of distal embolic protection for patients undergoing percutaneous intervention of saphenous vein bypass grafts, 1801

Emergency department
Heart failure in the emergency department (editorial), 1334
Primary results of the Rapid Emergency Department Heart Failure Outpatient Trial (REDHOT), 1328

Endocarditis
Prevalence and severity of paravalvular regurgitation in the Artificial Valve Endocarditis Reduction Trial (AVERT) Echocardiography Study, 1467

Endothelial dysfunction
Detection of retained microbubbles in carotid arteries with real-time low mechanical index imaging in the setting of endothelial dysfunction, 1036
Effects of prior moderate exercise on postprandial metabolism and vascular function in lean and centrally obese men, 2375
Global impairment of brachial, carotid, and aortic vascular function in young smokers, 2056
Novel apolipoproteinA-I mutation (L178P) leads to endothelial dysfunction, increased arterial wall thickness, and premature coronary artery disease, 1429
Physical inactivity causes endothelial dysfunction in healthy young mice, 1320
Rapid reversal of endothelial dysfunction in hypercholesterolemic apolipoprotein E-null mice by recombinant apolipoprotein A-I_{Milano}-phospholipid complex, 1311

Endothelial function
Impaired vascular reactivity in patients with erectile dysfunction (letter), 1339

Endothelium
Interleukin-10 serum levels and systemic endothelial vasoreactivity in patients with coronary artery disease, 44
Plasma level of oxidized low-density lipoprotein is an independent determinant of coronary macrovasomotor and microvasomotor responses induced by bradykinin, 451
Role of the endothelium in modulating neointimal formation, 733

Ephedrine
Ephedrine increases ventricular arrhythmias in conscious dogs after myocardial infarction, 1675

ErbB2
Inhibition of ErbB2 causes mitochondrial dysfunction in cardiomyocytes: implications for herceptin induced cardiomyopathy, 2231

Erectile dysfunction
Impaired vascular reactivity in patients with erectile dysfunction (letter), 1339

Erythropoietin
Prognostic value of plasma erythropoietin on mortality in patients with chronic heart failure, 63

Ethics
ACCF/AHA consensus conference report on professionalism and ethics, 1718
President's page: the trust imperative: ethical choice always puts patient first, 1709

Exercise
Age and gender affect ventricular-vascular coupling during aerobic exercise, 611
Detection of exercise-induced ischemia by changes in B-type natriuretic peptides, 1980
Diet and exercise for perimenopausal women (editorial), 586
Dietary and exercise intervention slows menopause-associated progression of subclinical atherosclerosis as measured by intima-media thickness of the carotid arteries, 579
Effect of six months' exercise training on C-reactive protein levels in healthy elderly subjects, 2411
Effects of prior moderate exercise on postprandial metabolism and vascular function in lean and centrally obese men, 2375
Exercise release of cardiac natriuretic peptides is markedly enhanced when patients with coronary artery disease are treated medically by beta-blockers (letter), 1341
Mechanism of a hypertensive response to exercise (letter), 1527
Postexercise severe ventricular ectopy in heart failure patients (editorial), 827
Serial left ventricular adaptations in world-class professional cyclists, 144
Severe frequent ventricular ectopy after exercise as a predictor of death in patients with heart failure, 820

Fat-free mass
Association of fat-free mass and training status with left ventricular size and mass in endurance-trained athletes, 892

Femoral artery
Radial versus femoral approach for percutaneous coronary diagnostic and interventional procedures, 349

Fenoldopam mesylate
N-acetylcysteine versus fenoldopam mesylate to prevent contrast agent-associated nephrotoxicity, 762

Fetus
Pulmonary arteriovenous shunting in the normal fetal lung, 1497

Fibrin glue
Injectable fibrin scaffold improves cell transplant survival, reduces infarct expansion, and induces neovasculature formation in ischemic myocardium, 654

Fibrinolysis
Randomized trial of rescue angioplasty versus a conservative approach for failed fibrinolysis in ST-segment elevation myocardial infarction, 287

Fibrinolytic therapy
Association of duration of symptoms at presentation with angiographic and clinical outcomes after fibrinolytic therapy in patients with ST-segment elevation myocardial infarction, 980

Fibroblast growth factor-1
Fibroblast growth factor-1 improves cardiac functional recovery and enhances cell survival after ischemia and reperfusion, 1113

Flow-mediated vasodilation
Flow-mediated vasodilation and the risk of developing hypertension in healthy postmenopausal women, 1636
Novel technique to assess flow-mediated vasodilation (editorial), 1478

Fontan operation
Cardiac transplantation after the Fontan or Glenn procedure, 2065
Diagnostic assessment before Fontan operation in patients with bidirectional cavopulmonary anastomosis, 184

Fractional flow reserve
Right atrial pressure: can it be ignored when calculating fractional flow reserve and collateral flow index (letter), 2089

Fulminant myocarditis
Interleukin-10: biomarker or pathologic cytokine in fulminant myocarditis? (editorial), 1298
Serum levels of interleukin-10 on admission as a prognostic predictor of human fulminant myocarditis, 1292

Furosemide
Furosemide and the progression of left ventricular dysfunction in experimental heart failure, 1301
Furosemide in the long-term management of heart failure (editorial), 1308

Gender
See also Women
Age and gender affect ventricular-vascular coupling during aerobic exercise, 611
Cardiac rehabilitation after myocardial infarction in the community, 988
Influence of age, gender, and race on the prevalence of depression in heart failure patients (letter), 2254
Gender as a risk factor in young, not in old women undergoing CABG, 2413

Gene delivery
Effects of gene delivery on collateral development in chronic hypoperfusion, 897

Gene mutations
Do cypher gene mutations cause left ventricular noncompaction with subclinical myopathy? (letter), 1139
Myosin binding protein C mutations and compound heterozygosity in hypertrophic cardiomyopathy, 1903

JACC Vol. 44, No. 12, 2004
December 21, 2004:2427–48

Tcap gene mutations in hypertrophic cardiomyopathy and dilated cardiomyopathy, 2192
Gene transfer
Myocardial gene transfer by selective pressure-regulated retroinfusion of coronary veins, 1124
Treatment of acute myocardial infarction by hepatocyte growth factor gene transfer, 644
Generic drugs
Generic drugs in cardiology: will they reduce health care costs?, 10
Genetics
Association of gene polymorphisms with coronary artery disease in low- and high-risk subjects defined by conventional risk factors (letter), 209
Genetic screening and risk assessment in hypertrophic cardiomyopathy, 2326
Genetics of dilated cardiomyopathy (editorial), 2041
Genotypes associated with myocardial infarction risk are more common in African Americans than in European Americans, 165
Heritability and correlates of intercellular adhesion molecule-1 in the Framingham Offspring Study, 168
Glenn procedure
Cardiac transplantation after the Fontan or Glenn procedure, 2065
Glomerular filtration rate
Reduced glomerular filtration rate in asymptomatic diabetic patients—predictor of increased risk for cardiac events independent of albuminuria, 2142
Glucose intolerance
Effects of pravastatin on progression of glucose intolerance and cardiovascular remodeling in a type II diabetes model, 904
Glycoprotein IIb/IIIa
Lack of clopidogrel pretreatment effect on the relative efficacy of bivalirudin with provisional glycoprotein IIb/IIIa blockade compared to heparin with routine glycoprotein IIb/IIIa blockade, 1194
Glycoprotein IIb/IIIa inhibitors
Ability of anti-glycoprotein IIb/IIIa agents to dissolve platelet thrombi formed on a collagen surface under blood flow conditions, 316
Economic evaluation of bivalirudin with provisional glycoprotein IIb/IIIa inhibition versus heparin with routine glycoprotein IIb/IIIa inhibition for percutaneous coronary intervention, 1792
Frequency, correlates, and clinical implications of myocardial perfusion after primary angioplasty and stenting, with and without glycoprotein IIb/IIIa inhibition, in acute myocardial infarction, 305
Granulocyte-macrophage colony-stimulating factor
Effect of granulocyte-macrophage colony-stimulating factor inducer on left ventricular remodeling after acute myocardial infarction, 1510
Health care
Disparities in cardiac care: rising to the challenge of Healthy People 2010, 503
Generic drugs in cardiology: will they reduce health care costs?, 10
President's page: exercise your vote: health care central to election 2004, 1523
Working group 5: innovative care team models and processes that might enhance efficiency and productivity (Bethesda Conference), 251
Year in health care delivery and outcomes research, 1130
Healthy People 2010
Disparities in cardiac care: rising to the challenge of Healthy People 2010, 503
Heart
Cardiac structure and function, 2A
Heart failure
Acute and chronic reduction of functional mitral regurgitation in experimental heart failure by percutaneous mitral annuloplasty, 1652
Altered myocardial Ca^{2+} cycling after left ventricular assist device support in the failing human heart, 837
Anemia as a risk factor and therapeutic target in heart failure, 959
Association among renal insufficiency, pharmacotherapy, and outcomes in 6,427 patients with heart failure and coronary artery disease, 1587
Cardiac resynchronization therapy improves central sleep apnea and Cheyne-Stokes respiration in patients with chronic heart failure, 68
Cardiac structure and function, 2A
Depression and heart failure (letter), 2253
Depression in older adults with heart failure (letter), 2254
Diagnosis of heart failure in the community, 1601
Diastolic dysfunction, 1543
Dismantling mandates in the treatment of heart failure (editorial), 1831
Does it make sense to train plumbers as electricians?, 1358
Echocardiographic evaluation of cardiac resynchronization therapy: ready for routine clinical use?, 1
Echocardiographic parameters of ventricular dyssynchrony validation in patients with heart failure using sequential biventricular pacing, 2157
Effects of a novel immune modulation therapy in patients with advanced chronic heart failure, 1181
Effects of PDE_5 inhibition with sildenafil on pulmonary hemodynamics and diffusion capacity, exercise ventilatory efficiency and oxygen uptake kinetics, in chronic heart failure, 2339
Evolving challenge of chronic heart failure management, 1354
Feasibility of adjusting paced left ventricular activation by manipulating stimulus strength, 2249
Furosemide and the progression of left ventricular dysfunction in experimental heart failure, 1301
Furosemide in the long-term management of heart failure (editorial), 1308
Hard look at angiotensin receptor blockers in heart failure, 1841
Heart failure in the emergency department (editorial), 1334
Impact of initiating carvedilol before angiotensin-converting enzyme inhibitor therapy on cardiac function in newly diagnosed heart failure, 1825
Improved outcomes of pediatric dilated cardiomyopathy with utilization of heart transplantation, 391
Influence of age, gender, and race on the prevalence of depression in heart failure patients (letter), 2254
Interaction between cardiac sympathetic drive and heart rate in heart failure, 2008
Matrix metalloproteinases and their tissue inhibitors in pressure-overloaded human myocardium during heart failure progression, 1609
Measuring plasma B-type natriuretic peptide in heart failure, 740
Multidisciplinary strategies for the management of heart failure patients at high risk for admission, 810
Outcomes in heart failure patients after major noncardiac surgery, 1446
Pharmacogenetic interactions between angiotensin-converting enzyme inhibitor therapy and the angiotensin-converting enzyme deletion polymorphism in patients with congestive heart failure, 2019
Postexercise severe ventricular ectopy in heart failure patients (editorial), 827
Predictors of mortality in patients with heart failure and preserved systolic function in the Digitalis Investigation Group Trial, 1025
Predictors of the onset of depressive symptoms in heart failure patients, 2333
Primary results of the Rapid Emergency Department Heart Failure Outpatient Trial (REDHOT), 1328
Prognostic value of left ventricular dyssynchrony in patients with heart failure (letter), 937
Prognostic value of osteoprotegerin in heart failure after acute myocardial infarction, 1970
Prognostic value of plasma erythropoietin on mortality in patients with chronic heart failure, 63
Renal insufficiency as an independent predictor of mortality among women with heart failure, 1593
Severe frequent ventricular ectopy after exercise as a predictor of death in patients with heart failure, 820
Surgical ventricular restoration in the treatment of congestive heart failure due to post-infarction ventricular dilation, 1439
Therapeutic update: non-selective beta- and alpha-adrenergic blockade in patients with coexistent chronic obstructive pulmonary disease and chronic heart failure, 497
Torasemide inhibits transcardiac extraction of aldosterone in patients with congestive heart failure, 2252
Year in heart failure, 2398
Heart failure training
Does it make sense to train plumbers as electricians?, 1358
Evolving challenge of chronic heart failure management, 1354
Heart failure training, 1361
Heart rate
The AFFIRM study: approaches to control rate in atrial fibrillation (letter), 2418
Increasing randomness of heart rate could explain increased heart rate variability preceding onset of atrial fibrillation (letter), 668
Interaction between cardiac sympathetic drive and heart rate in heart failure, 2008
Sublingual nitroglycerin used in routine tilt testing provokes a cardiac output-mediated vasovagal response, 588
Heart rate reserve
Incremental prognostic value of percentage of heart rate reserve achieved over myocardial perfusion single-photon emission computed tomography in the prediction of cardiac death and all-cause mortality, 423
Heart rate variability
Increasing randomness of heart rate could explain

increased heart rate variability preceding onset of atrial fibrillation (letter), 668

Heart rhythm
Highlights of Heart Rhythm 2004, the Annual Scientific Sessions of the Heart Rhythm Society: May 19 to 22, 2004 in San Francisco, California, 1550
Left ventricular function during and after right ventricular pacing, 1883

Heart transplantation
Cardiac transplantation after the Fontan or Glenn procedure, 2065
Improved outcomes of pediatric dilated cardiomyopathy with utilization of heart transplantation, 391
Reduced incidence of hypertension after heterotopic cardiac transplantation compared with orthotopic cardiac transplantation, 1254

Hemodynamics
Cardiac power is the strongest hemodynamic correlate of mortality in cardiogenic shock: a report from the SHOCK trial registry, 340
Cardiopulmonary resuscitation with a novel chest compression device in a porcine model of cardiac arrest: improved hemodynamics and mechanisms, 2214
Differences in hemodynamic and oxygenation responses to three different phosphodiesterase-5 inhibitors in patients with pulmonary arterial hypertension, 1488
Effects of carbon dioxide on oxygenation and systemic, cerebral, and pulmonary vascular hemodynamics after the bidirectional superior cavopulmonary anastomosis, 1501
Effects of PDE_5 inhibition with sildenafil on pulmonary hemodynamics and diffusion capacity, exercise ventilatory efficiency and oxygen uptake kinetics, in chronic heart failure, 2339
Hemodynamic effects of inhaled nitric oxide in right ventricular myocardial infarction and cardiogenic shock, 793

Hemoglobin
Prognostic value of plasma erythropoietin on mortality in patients with chronic heart failure, 63

Heparin
Economic evaluation of bivalirudin with provisional glycoprotein IIb/IIIa inhibition versus heparin with routine glycoprotein IIb/IIIa inhibition for percutaneous coronary intervention, 1792
Lack of clopidogrel pretreatment effect on the relative efficacy of bivalirudin with provisional glycoprotein IIb/IIIa blockade compared to heparin with routine glycoprotein IIb/IIIa blockade, 1194

Hepatocyte growth factor
Treatment of acute myocardial infarction by hepatocyte growth factor gene transfer, 644

Herceptin
Inhibition of ErbB2 causes mitochondrial dysfunction in cardiomyocytes: implications for herceptin induced cardiomyopathy, 2231

Heterotopic cardiac transplantation
Reduced incidence of hypertension after heterotopic cardiac transplantation compared with orthotopic cardiac transplantation, 1254

High-density lipoprotein
Apolipoprotein A-I and high-density lipoprotein (editorial), 1436

High-protein diets
High-protein diets: putting rumors to rest (letter), 1526

Hospitalization
Multidisciplinary strategies for the management of heart failure patients at high risk for admission, 810
Risk score to estimate the likelihood of coronary artery bypass surgery during the index hospitalization among patients with unstable angina and non–ST-segment elevation myocardial infarction, 799

Human Genome Project
Heart disease leaves its mark (editorial), 1584

Humoral immunity
Potential role of humoral immunity in cardiac dysfunction of patients suffering from dilated cardiomyopathy, 829

Hypercholesterolemia
Inhibition of vascular oxidative stress in hypercholesterolemia by eccentric isosorbide mononitrate, 624
Rapid reversal of endothelial dysfunction in hypercholesterolemic apolipoprotein E-null mice by recombinant apolipoprotein $A\text{-}I_{Milano}$-phospholipid complex, 1311

Hyperemic reactivity
Quantitative hyperemic reactivity in opposed limbs during myocardial perfusion imaging, 1473

Hypertension
Angiotensin-converting enzyme inhibition in hypertensive patients is associated with a reduction in the occurrence of atrial fibrillation, 159
Clinical efficacy in primary pulmonary hypertension: a randomized, placebo-controlled, double-blind, crossover study (letter), 2256
Flow-mediated vasodilation and the risk of developing hypertension in healthy postmenopausal women, 1636
Mechanism of a hypertensive response to exercise (letter), 1527
Platelet indexes in relation to target organ damage in high-risk hypertensive patients, 415
Reduced incidence of hypertension after heterotopic cardiac transplantation compared with orthotopic cardiac transplantation, 1254
Stroke prevention with the angiotensin II type-1 receptor blocker candesartan in elderly patients with isolated systolic hypertension, 1175
Vascular disease, hypertension, and prevention, 19A

Hypertrophic cardiomyopathy
Alcohol septal ablation versus surgical septal myectomy: comparison of effects of atrioventricular conduction tissue, 2329
Case for surgery in obstructive hypertrophic cardiomyopathy, 2044
Comprehensive analysis of the beta-myosin heavy chain gene in 389 unrelated patients with hypertrophic cardiomyopathy, 602
Frequency and clinical expression of cardiac troponin I mutations in 748 consecutive families with hypertrophic cardiomyopathy, 2315
Genetic screening and risk assessment in hypertrophic cardiomyopathy, 2326
Induction and reversal of cardiac phenotype of human hypertrophic cardiomyopathy mutation cardiac troponin T-Q92 in switch on-switch off bigenic mice, 2221
Left ventricular hypertrophy in hypertrophic cardiomyopathy (editorial), 406
Myosin binding protein C mutations and compound heterozygosity in hypertrophic cardiomyopathy, 1903
New treatment strategies for hypertrophic obstructive cardiomyopathy, 2054
Progressive left ventricular remodeling in patients with hypertrophic cardiomyopathy and severe left ventricular hypertrophy, 398
Proposal for contemporary screening strategies in families with hypertrophic cardiomyopathy, 2125
Tcap gene mutations in hypertrophic cardiomyopathy and dilated cardiomyopathy, 2192

Hypoperfusion
Effects of gene delivery on collateral development in chronic hypoperfusion, 897

Ibutilide
Ibutilide added to propafenone for the conversion of atrial fibrillation and atrial flutter, 859
Use of ibutilide in cardioversion of patients with atrial fibrillation or atrial flutter treated with class IC agents, 864

Idiopathic dilated cardiomyopathy
Insulin resistance in idiopathic dilated cardiomyopathy, 78
Regional coronary flow and contractile reserve in patients with idiopathic dilated cardiomyopathy, 2027
Severe disease expression of cardiac troponin C and T mutations in patients with idiopathic dilated cardiomyopathy, 2033

Idiopathic left ventricular dysfunction
Differences in mechanisms and outcomes of syncope in patients with coronary disease or idiopathic left ventricular dysfunction assessed by electrophysiologic testing, 594

Imaging
See also Computed tomography; Echocardiography; Magnetic resonance imaging; Single-photon emission computed tomography
Global impairment of brachial, carotid, and aortic vascular function in young smokers, 2056
Noninvasive imaging, 25A
Noninvasive visualization of coronary artery bypass grafts using 16-detector row computed tomography, 1224
Quantitative hyperemic reactivity in opposed limbs during myocardial perfusion imaging, 1473
Year in cardiac imaging, 1937

Immune modulation therapy
Effects of a novel immune modulation therapy in patients with advanced chronic heart failure, 1181

Immunoadsorption therapy
Potential role of humoral immunity in cardiac dysfunction of patients suffering from dilated cardiomyopathy, 829

Implantable cardioverter-defibrillators
Algorithm to predict implantable cardioverter-defibrillator lead failure, 1898
Does it make sense to train plumbers as electricians?, 1358
Highlights of Heart Rhythm 2004, the Annual Scientific Sessions of the Heart Rhythm Society: May 19 to 22, 2004 in San Francisco, California, 1550
Increased incidence of life-threatening ventricular arrhythmias in implantable defibrillator patients after the World Trade Center attack, 1261
Is defibrillation testing required for defibrillator implantation?, 88
Patient alert in implantable cardioverter defibrillators: toy or tool?, 95
Prevention of inappropriate therapy in implantable cardioverter-defibrillators: results of a

prospective, randomized study of tachyarrhythmia detection algorithms, 2362
Prophylactic implantable cardioverter-defibrillator therapy in patients with left ventricular systolic dysfunction, 2166
Reappraisal of implant testing of implantable cardioverter defibrillators (editorial), 92
Utilization of implantable cardioverter-defibrillators in survivors of cardiac arrest in the United States from 1996 to 2001, 855
World Trade Center attack: increased frequency of defibrillator shocks for ventricular arrhythmias in patients living remotely from New York City, 1265

Inactivity
Physical inactivity causes endothelial dysfunction in healthy young mice, 1320

Infarction
See also Myocardial infarction
Accurate and objective infarct sizing by contrast enhanced MRI in a canine myocardial infarction model, 2383
Comparison of human skeletal myoblasts and bone marrow-derived CD133$^+$ progenitors for the repair of infarcted myocardium, 458
Quantification of infarct size, 1533

Infarct-related artery
Reduced collateral circulation to the infarct-related artery in elderly patients with acute myocardial infarction, 28

Infectious endocarditis
Prevalence and severity of paravalvular regurgitation in the Artificial Valve Endocarditis Reduction Trial (AVERT) Echocardiography Study, 1467

Inflammation
Adherence to the Mediterranean diet attenuates inflammation and coagulation process in healthy adults, 152
Comparative effects of AT1-antagonism and angiotensin-converting enzyme inhibition on markers of inflammation and platelet aggregation in patients with coronary artery disease, 362
Does nondipping blood pressure profile contribute to vascular inflammation during sleep deprivation? (editorial), 1529
Heritability and correlates of intercellular adhesion molecule-1 in the Framingham Offspring Study, 168
Incidence and follow-up of inflammatory cardiac complications after smallpox vaccination, 201
N-terminal pro-brain natriuretic peptide in relation to inflammation, myocardial necrosis, and the effect of an invasive strategy in unstable coronary artery disease (letter), 1932
Yin and yang of arterial inflammation (editorial), 50

In-hospital resuscitation
Program encouraging early defibrillation results in improved in-hospital resuscitation efficacy, 846

Insulin resistance
Insulin resistance in idiopathic dilated cardiomyopathy, 78

Integrins
Cilostazol inhibits leukocyte integrin Mac-1, leading to a potential reduction in restenosis after coronary stent implantation, 1408

Intercellular adhesion molecule-1
Heritability and correlates of intercellular adhesion molecule-1 in the Framingham Offspring Study, 168

Interleukin-10
Interleukin-10: biomarker or pathologic cytokine in fulminant myocarditis? (editorial), 1298
Interleukin-10 serum levels and systemic endothelial vasoreactivity in patients with coronary artery disease, 44
Serum levels of interleukin-10 on admission as a prognostic predictor of human fulminant myocarditis, 1292

International medical graduates
International medical graduates and the cardiology workforce, 1172
Working group 4: international medical graduates and the cardiology workforce (Bethesda Conference), 240

International normalized ratio
Optimal target international normalized ratio for patients with mechanical heart valves (letter), 1142

Interventional cardiology
Aborted myocardial infarction in patients with ST-segment elevation, 38
Achieved platelet aggregation inhibition after different antiplatelet regimens during percutaneous coronary intervention for ST-segment elevation myocardial infarction, 1187
Additive value of tirofiban administered with the high-dose bolus in the prevention of ischemic complications during high-risk coronary angioplasty, 14
Angiography and interventional cardiology, 13A
Clinical and angiographic outcome after sirolimus-eluting stent implantation in aorto-ostial lesions, 967
Did we enjoy the debate but forget the patient? (editorial), 775
Effect of two different neuroprotection systems on microembolization during carotid artery stenting, 1966
Intracoronary brachytherapy after stenting de novo lesions in diabetic patients, 520
Monocyte-derived tissue factor contributes to stent thrombosis in an in vitro system, 1570
Native coronary disease progression exceeds failed revascularization as cause of angina after five years in the Bypass Angioplasty Revascularization Investigation (BARI), 766
Radial versus femoral approach for percutaneous coronary diagnostic and interventional procedures, 349
Reduced collateral circulation to the infarct-related artery in elderly patients with acute myocardial infarction, 28
Simple risk score for prediction of contrast-induced nephropathy after percutaneous coronary intervention, 1393

Intima-media thickness
Dietary and exercise intervention slows menopause-associated progression of subclinical atherosclerosis as measured by intima-media thickness of the carotid arteries, 579

Intracoronary brachytherapy
Intracoronary brachytherapy after stenting de novo lesions in diabetic patients, 520

Intravascular ultrasound
Clinical, angiographic, and intravascular ultrasound characteristics of early saphenous vein graft failure, 53
Direct stenting versus direct stenting followed by centered beta-radiation with intravascular ultrasound-guided dosimetry and long-term anti-platelet treatment, 528
Intravascular ultrasound assessment of angiographic filling defects in native coronary arteries: do they always contain thrombi? (letter), 2087

Intronic mutation
An intronic mutation causes long QT syndrome, 1283

Invasive cardiology
Identification of less-irradiating tube angulations in invasive cardiology, 1420

Ischemia
See also Myocardial ischemia
Cardiac troponin after major vascular surgery, 569
Detection of exercise-induced ischemia by changes in B-type natriuretic peptides, 1980
Ischemia, revascularization, and perioperative troponin elevation after vascular surgery (editorial), 576
Primary stent supported angioplasty for treatment of below-knee critical limb ischemia and severe claudication: early and one year outcomes, 2307
Roles of endogenous monocyte chemoattractant protein-1 in ischemia-induced neovascularization, 661

Ischemic cardiomyopathy
Surgical ventricular restoration in the treatment of congestive heart failure due to post-infarction ventricular dilation, 1439

Ischemic heart disease
Comprehensive approach to ischemic heart disease by CMR: are we there yet?, 2182

Isolated systolic hypertension
Stroke prevention with the angiotensin II type-1 receptor blocker candesartan in elderly patients with isolated systolic hypertension, 1175

Isosorbide mononitrate
Inhibition of vascular oxidative stress in hypercholesterolemia by eccentric isosorbide mononitrate, 624

Leads
Algorithm to predict implantable cardioverter-defibrillator lead failure, 1898

Left atrial lesions
Time courses and quantitative analysis of atrial fibrillation episode number and duration after circular plus linear left atrial lesions, 869

Left atrial volume
Long-term prognostic significance of left atrial volume in acute myocardial infarction, 327

Left atrium
Moderate and chronic hemodynamic overload of sheep atria induces reversible cellular electrophysiologic abnormalities and atrial vulnerability, 1918

Left internal mammary artery grafts
Long term patency of saphenous vein and left internal mammary artery grafts after coronary artery bypass surgery: results from a Department of Veterans Affairs Cooperative Surgery, 2149

Left ventricle
Citius, Altius, Fortius (the Olympic Motto: swifter, higher, stronger) (editorial), 150
Effect of granulocyte-macrophage colony-stimulating factor inducer on left ventricular remodeling after acute myocardial infarction, 1510
Serial left ventricular adaptations in world-class professional cyclists, 144
Tissue Doppler-derived myocardial acceleration for evaluation of left ventricular diastolic function, 1459

Left ventricular activation
Feasibility of adjusting paced left ventricular

activation by manipulating stimulus strength, 2249
Left ventricular assist devices
Altered myocardial Ca^{2+} cycling after left ventricular assist device support in the failing human heart, 837
Left ventricular dysfunction
Differences in mechanisms and outcomes of syncope in patients with coronary disease or idiopathic left ventricular dysfunction assessed by electrophysiologic testing, 594
Furosemide and the progression of left ventricular dysfunction in experimental heart failure, 1301
Left ventricular dyssynchrony
Left ventricular dyssynchrony predicts response and prognosis after cardiac resynchronization therapy, 1834
Prognostic value of left ventricular dyssynchrony in patients with heart failure (letter), 937
Left ventricular end-diastolic dimension
Association of fat-free mass and training status with left ventricular size and mass in endurance-trained athletes, 892
Left ventricular function
Left ventricular function during and after right ventricular pacing, 1883
Left ventricular hypertrophy
Definition of physiological hypertrophy in ultramarathon athletes (letter), 469
Left ventricular hypertrophy in hypertrophic cardiomyopathy (editorial), 406
Progressive left ventricular remodeling in patients with hypertrophic cardiomyopathy and severe left ventricular hypertrophy, 398
Suggested new upper limit of physiologic cardiac hypertrophy determined in Japanese ultramarathon runners must be interpreted cautiously (letter), 470
Left ventricular mass
Association of fat-free mass and training status with left ventricular size and mass in endurance-trained athletes, 892
True uncomplicated obesity is not related to increased left ventricular mass and systolic dysfunction (letter), 2257
Left ventricular noncompaction
Do cypher gene mutations cause left ventricular noncompaction with subclinical myopathy? (letter), 1139
Left ventricular outflow obstruction
Case for surgery in obstructive hypertrophic cardiomyopathy, 2044
Left ventricular remodeling
Echocardiographic limits of left ventricular remodeling in athletes (letter), 469
p38 mitogen-activated protein kinase inhibition improves cardiac function and attenuates left ventricular remodeling following myocardial infarction in the rat, 1679
Progressive left ventricular remodeling in patients with hypertrophic cardiomyopathy and severe left ventricular hypertrophy, 398
Left ventricular systolic dysfunction
Prophylactic implantable cardioverter-defibrillator therapy in patients with left ventricular systolic dysfunction, 2166
Left ventricular systolic elastance
Age and gender affect ventricular-vascular coupling during aerobic exercise, 611
Left ventricular volume
Accurate and reproducible measurement of left ventricular volume and ejection fraction by contrast echocardiography, 1030
Leptin
Plasma leptin and prognosis in patients with established coronary atherosclerosis, 1819
Letters to the editor
AFFIRM study: approaches to control rate in atrial fibrillation, Shelton
Anticoagulation management of patients with prosthetic valves, 1143
Aspirin "allergy" and resistance, 939
Association of gene polymorphisms with coronary artery disease in low- and high-risk subjects defined by conventional risk factors, 209
Brain natriuretic peptide as a predictor of sudden cardiac death in patients with myocardial infarction, 1528
Cardiac resynchronization therapy in patients with narrow QRS, 2096
Cerebroprotection mediated by angiotensin II, 2097
Choice of prosthetic heart valves: 20-year results of the Edinburgh Heart Valve trial, 667
Circulating monocytes and late in-stent restenosis, 936
Definition of physiological hypertrophy in ultramarathon athletes, 469
Depression as a risk factor for post-MI mortality, 472
Do cypher gene mutations cause left ventricular noncompaction with subclinical myopathy?, 1139
Echocardiographic limits of left ventricular remodeling in athletes, 469
Exercise release of cardiac natriuretic peptides is markedly enhanced when patients with coronary artery disease are treated medically by beta-blockers, 1341
High-protein diets: putting rumors to rest, 1526
Impact of delays to cardiac surgery, 2094
Impaired vascular reactivity in patients with erectile dysfunction, 1339
Incidence and clinical course of thrombus formation on atrial septal defect and patent foramen ovale closure devices, 1714
Increasing randomness of heart rate could explain increased heart rate variability preceding onset of atrial fibrillation, 668
Intravascular ultrasound assessment of angiographic filling defects in native coronary arteries: do they always contain thrombi?, 2087
Is depression a risk factor for coronary heart disease, 472
Measurement of circulating vascular endothelial growth factor in obese subjects, 669
Mechanism of a hypertensive response to exercise, 1527
More on the history of arrhythmia in long QT syndrome, 1339
N-terminal pro-brain natriuretic peptide in relation to inflammation, myocardial necrosis, and the effect of an invasive strategy in unstable coronary artery disease, 1932
Optimal intensity of vitamin K antagonists in patients with mechanical heart valves: a meta-analysis, 1143
Optimal target international normalized ratio for patients with mechanical heart valves, 1142
Prognostic value of left ventricular dyssynchrony in patients with heart failure, 937
Right atrial pressure: can it be ignored when calculating fractional flow reserve and collateral flow index, 2089
Risk of thrombus formation on devices used to close transcatheter atrial septal defect and patent foramen ovale, 1712
Serum potassium level and risk of postoperative atrial fibrillation in patients undergoing cardiac surgery, 938
Severe ostial saphenous vein graft disease leading to acute coronary syndromes after proximal aorto-saphenous anastomoses with the Symmetry Bypass Connector Device, 1140
Should we use the cutting balloon in patients with in-stent restenosis (letter), 2416
Suggested new upper limit of physiologic cardiac hypertrophy determined in Japanese ultramarathon runners must be interpreted cautiously, 470
Therapeutic transcutaneous ultrasound: long overdue therapy, 210
Thrombus formation on intracardiac devices, 1712
Transcatheter intracardiac device implantation for atrial level defects and thrombosis: a call for randomized, controlled data, 1713
Transient ischemic dilation, 211
Troponin and outcomes, 1933
Leukocyte count
Leukocyte count and coronary heart disease, 1945
Lifestyle
Smoking and caffeine have a synergistic detrimental effect on aortic stiffness and wave reflections, 1911
Limb ischemia
Primary stent supported angioplasty for treatment of below-knee critical limb ischemia and severe claudication: early and one year outcomes, 2307
Lipid-lowering therapy
Clinical outcomes in managed-care patients with coronary heart disease treated aggressively in lipid-lowering disease management clinics, 1772
Long QT syndrome
An intronic mutation causes long QT syndrome, 1283
More on the history of arrhythmia in long QT syndrome (letter), 1339
Mutation site-specific differences in arrhythmic risk and sensitivity to sympathetic stimulation in the LQT1 form of long QT syndrome, 117
Low mechanical index imaging
Detection of retained microbubbles in carotid arteries with real-time low mechanical index imaging in the setting of endothelial dysfunction, 1036
Low-density lipoprotein
Plasma level of oxidized low-density lipoprotein is an independent determinant of coronary macrovasomotor and microvasomotor responses induced by bradykinin, 451
Lungs
Pulmonary arteriovenous shunting in the normal fetal lung, 1497
Mac-1
Cilostazol inhibits leukocyte integrin Mac-1, leading to a potential reduction in restenosis after coronary stent implantation, 1408
Macrophages
Focal and multi-focal plaque macrophage distributions in patients with acute and stable presentations of coronary artery disease, 972
Magnetic resonance angiography
Diagnostic performance of coronary magnetic resonance angiography as compared against conventional x-ray angiography, 1867
Magnetic resonance imaging
Accurate and reproducible measurement of left ventricular volume and ejection fraction by contrast echocardiography, 1030
Assessment of non-ST-segment elevation acute

coronary syndromes with cardiac magnetic resonance imaging, 2173
Cardiovascular magnetic resonance imaging: current and emerging applications, 1164
Comprehensive approach to ischemic heart disease by CMR: are we there yet?, 2182
Global impairment of brachial, carotid, and aortic vascular function in young smokers, 2056
Integration of cardiac magnetic resonance imaging with three-dimensional electroanatomical mapping to guide left ventricular catheter manipulation: feasibility in a porcine model of heated myocardial infarction, 2202
MRI guided transcatheter implantation of a prosthetic valve in aortic valve position: feasibility study in swine, 2247
Noninvasive imaging, 25A
Quantification of stenotic mitral valve area with magnetic resonance imaging and comparison with Doppler ultrasound, 133
Q-wave and non–Q-wave myocardial infarctions through the eyes of cardiac magnetic resonance imaging (editorial), 561
Year in cardiac imaging, 1937

Mahaim fibers
Electrocardiogram during sinus rhythm and tachycardia in patients with Mahaim fibers, 1626

Managed care
Clinical outcomes in managed-care patients with coronary heart disease treated aggressively in lipid-lowering disease management clinics, 1772

Mapping
Mapping and ablation of polymorphic ventricular tachycardia after myocardial infarction, 1700

Matrix metalloproteinases
Matrix metalloproteinases and their tissue inhibitors in pressure-overloaded human myocardium during heart failure progression, 1609

Mayo Clinic
Comparison of Mayo Clinic risk score and American College of Cardiology/American Heart Association lesion classification in the prediction of adverse cardiovascular outcome following percutaneous coronary intervention, 357

Mechanical heart valves
Anticoagulation management of patients with prosthetic valves (letter), 1143
Optimal intensity of vitamin K antagonists in patients with mechanical heart valves: a meta-analysis (letter), 1143
Optimal target international normalized ratio for patients with mechanical heart valves (letter), 1142

Medical education
Minding the gap: can continuing medical education bridge the quality chasm (editorial), 199
President's page: ACC's continuing education programs: setting up systems to meet members' changing needs, 206
State-mandated continuing medical education and the use of proven therapies in patients with an acute myocardial infarction, 192
Working group 6: the role of technology to enhance clinical and educational efficiency (Bethesda Conference), 256

Medical graduates
International medical graduates and the cardiology workforce, 1172

Mediterranean diet
Adherence to the Mediterranean diet attenuates inflammation and coagulation process in healthy adults, 152

Meetings
Highlights of Heart Rhythm 2004, the Annual Scientific Sessions of the Heart Rhythm Society: May 19 to 22, 2004 in San Francisco, California, 1550

Menopause
Diet and exercise for perimenopausal women (editorial), 586
Dietary and exercise intervention slows menopause-associated progression of subclinical atherosclerosis as measured by intima-media thickness of the carotid arteries, 579

Metabolic syndrome
Association between cardiorespiratory fitness and C-reactive protein in subjects with the metabolic syndrome, 2003

Mibefradil
Angiographic and clinical benefits of mibefradil in the coronary slow flow phenomenon, 57

Microbubbles
Detection of retained microbubbles in carotid arteries with real-time low mechanical index imaging in the setting of endothelial dysfunction, 1036

Microembolization
Effect of two different neuroprotection systems on microembolization during carotid artery stenting, 1966

Minorities
Working group 3: how to encourage more minorities to choose a career in cardiology (Bethesda Conference), 240

Mitochondrial dysfunction
Inhibition of ErbB2 causes mitochondrial dysfunction in cardiomyocytes: implications for herceptin induced cardiomyopathy, 2231

Mitral annuloplasty
Acute and chronic reduction of functional mitral regurgitation in experimental heart failure by percutaneous mitral annuloplasty, 1652

Mitral regurgitation
Acute and chronic reduction of functional mitral regurgitation in experimental heart failure by percutaneous mitral annuloplasty, 1652
Mechanism for immediate reduction in mitral regurgitation after cardiac resynchronization therapy, 1619
Percutaneous valve replacement and repair (editorial), 1662
Valvular disease, 7A

Mitral valve area
Quantification of stenotic mitral valve area with magnetic resonance imaging and comparison with Doppler ultrasound, 133

Monocyte chemoattractant protein-1
Association among plasma levels of monocyte chemoattractant protein-1, traditional cardiovascular risk factors, and subclinical atherosclerosis, 1812
Roles of endogenous monocyte chemoattractant protein-1 in ischemia-induced neovascularization, 661

Monocytes
Circulating monocytes and late in-stent restenosis (letter), 936
Co-administration of nitric oxide-aspirin (NCX-4016) and aspirin prevents platelet and monocyte activation and protects against gastric damage induced by aspirin in humans, 635
Monocyte-derived tissue factor contributes to stent thrombosis in an in vitro system, 1570

Mortality
Anemia is an independent predictor of mortality after percutaneous coronary intervention, 541
Cardiac power is the strongest hemodynamic correlate of mortality in cardiogenic shock: a report from the SHOCK trial registry, 340
Depression as a risk factor for post-MI mortality (letter), 472
Differential mortality risk of postprocedural creatine kinase-MB elevation following successful versus unsuccessful stent procedures, 1210
Incremental prognostic value of percentage of heart rate reserve achieved over myocardial perfusion single-photon emission computed tomography in the prediction of cardiac death and all-cause mortality, 423
Low and lowered cholesterol and total mortality (editorial), 1009
Low cholesterol, mortality, and quality of life in old age during a 39-year follow-up, 1002
Multidisciplinary strategies for the management of heart failure patients at high risk for admission, 810
Outcomes in heart failure patients after major noncardiac surgery, 1446
Performance of the Thrombolysis In Myocardial Infarction Risk Index in the National Registry of Myocardial Infarction-3 and -4, 783
Predictors of mortality in patients with heart failure and preserved systolic function in the Digitalis Investigation Group Trial, 1025
Prognostic role of B-type natriuretic peptide levels in patients with type 2 diabetes mellitus, 1047
Prognostic value of plasma erythropoietin on mortality in patients with chronic heart failure, 63
Renal insufficiency as an independent predictor of mortality among women with heart failure, 1593
Severe frequent ventricular ectopy after exercise as a predictor of death in patients with heart failure, 820
Thrombolysis In Myocardial Infarction Risk Index (editorial), 790
Type D personality predicts death or myocardial infarction after bare metal stent or sirolimus-eluting stent implantation, 997

Murine models
See also Animal models
Induction and reversal of cardiac phenotype of human hypertrophic cardiomyopathy mutation cardiac troponin T-Q92 in switch on-switch off bigenic mice, 2221

Mustard operation
Impact of pregnancy on the systemic right ventricle after a Mustard operation for transposition of the great arteries, 433
Predictors of sudden cardiac death after Mustard or Senning repair for transposition of the great arteries, 1093

Mutations
An intronic mutation causes long QT syndrome, 1283

Myectomy
Alcohol septal ablation versus surgical septal myectomy: comparison of effects of atrioventricular conduction tissue, 2329

Myoblasts
Comparison of human skeletal myoblasts and bone marrow-derived CD133+ progenitors for the repair of infarcted myocardium, 458
Wanted! The best cell for cardiac regeneration (editorial), 464

Myocardial acceleration
Tissue Doppler-derived myocardial acceleration for evaluation of left ventricular diastolic function, 1459
Myocardial blood flow reserve
Sympathetic dysfunction in type 1 diabetes: association with impaired myocardial blood flow reserve and diastolic dysfunction, 2368
Myocardial contrast echocardiography
Comparative accuracy of real time myocardial contrast perfusion imaging and wall motion analysis during dobutamine stress echocardiography for the diagnosis of coronary artery disease, 2185
Evaluation of cardioprotective effects of recombinant soluble P-selectin glycoprotein ligand-immunoglobulin in myocardial ischemia-reperfusion injury by real-time myocardial contrast echocardiography, 887
Myocardial infarction
See also ST-segment elevation myocardial infarction
Aborted myocardial infarction in patients with ST-segment elevation, 38
ACC/AHA guidelines for the management of patients with ST-elevation myocardial infarction—executive summary, 671
Accurate and objective infarct sizing by contrast enhanced MRI in a canine myocardial infarction model, 2383
Age-associated cardiovascular changes are the substrate for poor prognosis with myocardial infarction (editorial), 35
Association of elevated B-type natriuretic peptide levels with angiographic findings among patients with unstable angina and non–ST-segment elevation myocardial infarction, 564
Brain natriuretic peptide as a predictor of sudden cardiac death in patients with myocardial infarction (letter), 1528
B-type natriuretic peptide at presentation and prognosis in patients with ST-segment elevation myocardial infarction, 335
Cardiac protection during acute myocardial infarction: where do we stand in 2004?, 276
Cardiac rehabilitation after myocardial infarction in the community, 988
Contrast-induced nephropathy in patients undergoing primary angioplasty for acute myocardial infarction, 1780
Depression as a risk factor for post-MI mortality (letter), 472
Differential mortality risk of postprocedural creatine kinase-MB elevation following successful versus unsuccessful stent procedures, 1210
Diminishing returns . . . and too many choices . . . the sage of pharmacologic therapy to reduce the complications of percutaneous coronary intervention (editorial), 25
Effect of granulocyte-macrophage colony-stimulating factor inducer on left ventricular remodeling after acute myocardial infarction, 1510
Ephedrine increases ventricular arrhythmias in conscious dogs after myocardial infarction, 1675
Genotypes associated with myocardial infarction risk are more common in African Americans than in European Americans, 165
Hemodynamic effects of inhaled nitric oxide in right ventricular myocardial infarction and cardiogenic shock, 793
Impact of anemia in patients with acute myocardial infarction undergoing primary percutaneous coronary intervention, 547
Injectable fibrin scaffold improves cell transplant survival, reduces infarct expansion, and induces neovasculature formation in ischemic myocardium, 654
Integration of cardiac magnetic resonance imaging with three-dimensional electroanatomical mapping to guide left ventricular catheter manipulation: feasibility in a porcine model of heated myocardial infarction, 2202
Lack of efficacy of clopidogrel pre-treatment in the prevention of myocardial damage after elective stent implantation, 20
Long-term prognostic significance of left atrial volume in acute myocardial infarction, 327
Mapping and ablation of polymorphic ventricular tachycardia after myocardial infarction, 1700
Mobilizing cells to the injured myocardium (editorial), 1521
Myocardial ischemia and infarction, 10A
p38 mitogen-activated protein kinase inhibition improves cardiac function and attenuates left ventricular remodeling following myocardial infarction in the rat, 1679
Pathologic basis of Q-wave and non–Q-wave myocardial infarction, 554
Performance of the Thrombolysis In Myocardial Infarction Risk Index in the National Registry of Myocardial Infarction-3 and -4, 783
Platelet disaggregation (editorial), 324
Procedural success versus clinical risk status in determining discharge of patients after primary angioplasty for acute myocardial infarction, 1400
Prognostic utility of comparative methods for assessment of ST-segment resolution after primary angioplasty for acute myocardial infarction, 1215
Prognostic value of osteoprotegerin in heart failure after acute myocardial infarction, 1970
Randomized trial of coronary stenting versus balloon angioplasty as a rescue intervention after failed thrombolysis in patients with acute myocardial infarction, 2073
Randomized trial of rescue angioplasty versus a conservative approach for failed fibrinolysis in ST-segment elevation myocardial infarction, 287
Reduced collateral circulation to the infarct-related artery in elderly patients with acute myocardial infarction, 28
Risk score to estimate the likelihood of coronary artery bypass surgery during the index hospitalization among patients with unstable angina and non–ST-segment elevation myocardial infarction, 799
State-mandated continuing medical education and the use of proven therapies in patients with an acute myocardial infarction, 192
Transplantation of progenitor cells and regeneration enhancement in acute myocardial infarction, 1690
Treatment of acute myocardial infarction by hepatocyte growth factor gene transfer, 644
Type D personality predicts death or myocardial infarction after bare metal stent or sirolimus-eluting stent implantation, 997
Myocardial ischemia
See also Ischemia
Acute changes in circulating natriuretic peptide levels in relation to myocardial ischemia, 1988
Fibroblast growth factor-1 improves cardiac functional recovery and enhances cell survival after ischemia and reperfusion, 1113
Injectable fibrin scaffold improves cell transplant survival, reduces infarct expansion, and induces neovasculature formation in ischemic myocardium, 654
Myocardial ischemia and infarction, 10A
Relationship between stress-induced myocardial ischemia and atherosclerosis measured by coronary calcium tomography, 923
Myocardial necrosis
N-terminal pro-brain natriuretic peptide in relation to inflammation, myocardial necrosis, and the effect of an invasive strategy in unstable coronary artery disease (letter), 1932
Myocardial perfusion
Frequency, correlates, and clinical implications of myocardial perfusion after primary angioplasty and stenting, with and without glycoprotein IIb/IIIa inhibition, in acute myocardial infarction, 305
No reflow and the quest to achieve optimal perfusion during the acute phase of myocardial infarction (editorial), 313
Strain echocardiography tracks dobutamine-induced decrease in regional myocardial perfusion in nonocclusive coronary stenosis, 1664
Ultrasound energy improves myocardial perfusion in the presence of coronary occlusion, 1454
Myocardial perfusion imaging
Quantitative hyperemic reactivity in opposed limbs during myocardial perfusion imaging, 1473
Myocardial perfusion single-photon emission computed tomography
Prognostic implications of atrial fibrillation in patients undergoing myocardial perfusion single-photon emission computed tomography, 1062
Myocarditis
Incidence and follow-up of inflammatory cardiac complications after smallpox vaccination, 201
Interleukin-10: biomarker or pathologic cytokine in fulminant myocarditis? (editorial), 1298
Serum levels of interleukin-10 on admission as a prognostic predictor of human fulminant myocarditis, 1292
Myocardium
Matrix metalloproteinases and their tissue inhibitors in pressure-overloaded human myocardium during heart failure progression, 1609
Myocyte calcium cycling
Altered myocardial Ca^{2+} cycling after left ventricular assist device support in the failing human heart, 837
Myosin binding protein C
Myosin binding protein C mutations and compound heterozygosity in hypertrophic cardiomyopathy, 1903
N-acetylcysteine
N-acetylcysteine versus fenoldopam mesylate to prevent contrast agent-associated nephrotoxicity, 762
National Cholesterol Education Program
Implications of recent clinical trials for the National Cholesterol Education Program Adult Treatment Panel III guidelines, 720
NCX-4016
Co-administration of nitric oxide-aspirin (NCX-4016) and aspirin prevents platelet and monocyte activation and protects against gastric damage induced by aspirin in humans, 635
Neointima
Role of the endothelium in modulating neointimal formation, 733

Neonates
Follow-up of aortic coarctation repair in neonates, 188
Neovascularization
Roles of endogenous monocyte chemoattractant protein-1 in ischemia-induced neovascularization, 661
Neovasculature
Injectable fibrin scaffold improves cell transplant survival, reduces infarct expansion, and induces neovasculature formation in ischemic myocardium, 654
Nephropathy
Contrast nephropathy: review focusing on prevention, 1763
Contrast-induced nephropathy in patients undergoing primary angioplasty for acute myocardial infarction, 1780
Simple risk score for prediction of contrast-induced nephropathy after percutaneous coronary intervention, 1393
Nephrotoxicity
N-acetylcysteine versus fenoldopam mesylate to prevent contrast agent-associated nephrotoxicity, 762
Nitrates
Long-term therapy with organic nitrates (editorial), 632
Nitric oxide
Hemodynamic effects of inhaled nitric oxide in right ventricular myocardial infarction and cardiogenic shock, 793
Inhibition of vascular oxidative stress in hypercholesterolemia by eccentric isosorbide mononitrate, 624
Long-term therapy with organic nitrates (editorial), 632
Nitric oxide-aspirin
Co-administration of nitric oxide-aspirin (NCX-4016) and aspirin prevents platelet and monocyte activation and protects against gastric damage induced by aspirin in humans, 635
Theriac found? Nitric oxide-aspirin and the search for the universal cure (editorial), 642
Nitroglycerin
Sublingual nitroglycerin used in routine tilt testing provokes a cardiac output-mediated vasovagal response, 588
No reflow phenomenon
No reflow and the quest to achieve optimal perfusion during the acute phase of myocardial infarction (editorial), 313
Non-contact mapping
Non-contact mapping to guide radiofrequency ablation of atypical right atrial flutter, 1080
Nondipping blood pressure
Does nondipping blood pressure profile contribute to vascular inflammation during sleep deprivation? (editorial), 1529
Non–Q-wave myocardial infarction
Pathologic basis of Q-wave and non–Q-wave myocardial infarction, 554
Q-wave and non–Q-wave myocardial infarctions through the eyes of cardiac magnetic resonance imaging (editorial), 561
Nonsteroidal anti-inflammatory drugs
Editor's page: Fallout from Vioxx, 2080
Norepinephrine
Clarifying the effects of adrenergic receptor polymorphisms by measuring synaptic parameters (editorial), 2016
Interaction between cardiac sympathetic drive and heart rate in heart failure, 2008
N-terminal pro-brain natriuretic peptide
N-terminal pro-brain natriuretic peptide in relation to inflammation, myocardial necrosis, and the effect of an invasive strategy in unstable coronary artery disease (letter), 1932
Nuclear perfusion imaging
Noninvasive imaging, 25A
Obesity
Effects of prior moderate exercise on postprandial metabolism and vascular function in lean and centrally obese men, 2375
Measurement of circulating vascular endothelial growth factor in obese subjects (letter), 669
True uncomplicated obesity is not related to increased left ventricular mass and systolic dysfunction (letter), 2257
Occlusions
Multiple, brief coronary occlusions during early reperfusion protect rabbit hearts by targeting cell signaling pathways, 1103
Prevention of lesion recurrence in chronic total coronary occlusions by paclitaxel-eluting stents, 2301
Ultrasound energy improves myocardial perfusion in the presence of coronary occlusion, 1454
Open access
Editor's page: open access, open archives, and enhanced public access to National Institute of Health-funded research, 2406
Open archives
Editor's page: open access, open archives, and enhanced public access to National Institute of Health-funded research, 2406
Optical coherence tomography
Focal and multi-focal plaque macrophage distributions in patients with acute and stable presentations of coronary artery disease, 972
Orthostatic intolerance
Beat-to-beat analysis of pressure wave morphology for pre-symptomatic detection of orthostatic intolerance during head-up tilt, 1891
Orthotopic cardiac transplantation
Reduced incidence of hypertension after heterotopic cardiac transplantation compared with orthotopic cardiac transplantation, 1254
Osteoprotegerin
Prognostic value of osteoprotegerin in heart failure after acute myocardial infarction, 1970
Skeleton key to vascular disease (editorial), 1977
Outcomes
Association of duration of symptoms at presentation with angiographic and clinical outcomes after fibrinolytic therapy in patients with ST-segment elevation myocardial infarction, 980
Clinical and angiographic outcome after sirolimus-eluting stent implantation in aorto-ostial lesions, 967
Clinical outcomes in managed-care patients with coronary heart disease treated aggressively in lipid-lowering disease management clinics, 1772
Comparison of Mayo Clinic risk score and American College of Cardiology/American Heart Association lesion classification in the prediction of adverse cardiovascular outcome following percutaneous coronary intervention, 357
Improved outcomes of pediatric dilated cardiomyopathy with utilization of heart transplantation, 391
Outcomes in heart failure patients after major noncardiac surgery, 1446
Primary stent supported angioplasty for treatment of below-knee critical limb ischemia and severe claudication: early and one year outcomes, 2307
Troponin and outcomes (letter), 1933
Year in health care delivery and outcomes research, 1130
Oxidative stress
Inhibition of vascular oxidative stress in hypercholesterolemia by eccentric isosorbide mononitrate, 624
Oxidized low-density lipoprotein
Plasma level of oxidized low-density lipoprotein is an independent determinant of coronary macrovasomotor and microvasomotor responses induced by bradykinin, 451
Oxygen uptake
Effects of PDE_5 inhibition with sildenafil on pulmonary hemodynamics and diffusion capacity, exercise ventilatory efficiency and oxygen uptake kinetics, in chronic heart failure, 2339
Oxygenation
Differences in hemodynamic and oxygenation responses to three different phosphodiesterase-5 inhibitors in patients with pulmonary arterial hypertension, 1488
Effects of carbon dioxide on oxygenation and systemic, cerebral, and pulmonary vascular hemodynamics after the bidirectional superior cavopulmonary anastomosis, 1501
p38 mitogen-activated protein kinase
p38 mitogen-activated protein kinase inhibition improves cardiac function and attenuates left ventricular remodeling following myocardial infarction in the rat, 1679
Pacing
Echocardiographic parameters of ventricular dyssynchrony validation in patients with heart failure using sequential biventricular pacing, 2157
Heart does not have Alzheimer's disease (editorial), 1889
Left ventricular function during and after right ventricular pacing, 1883
Paclitaxel-eluting stents
Prevention of lesion recurrence in chronic total coronary occlusions by paclitaxel-eluting stents, 2301
Paravalvular regurgitation
Prevalence and severity of paravalvular regurgitation in the Artificial Valve Endocarditis Reduction Trial (AVERT) Echocardiography Study, 1467
Patent ductus arteriosus
Initial results and medium-term follow-up of stent implantation of patent ductus arteriosus in duct-dependent pulmonary circulation, 438
Multicenter USA Amplatz patent ductus arteriosus occlusion device trial, 513
Patent foramen ovale
Closure of patent foramen ovale in cryptogenic stroke (editorial), 759
Comparison of medical treatment with percutaneous closure of patent foramen ovale in patients with cryptogenic stroke, 750
Incidence and clinical course of thrombus formation on atrial septal defect and patent foramen ovale closure devices (letter), 1714
Risk of thrombus formation on devices used to close transcatheter atrial septal defect and patent foramen ovale (letter), 1712
Transcatheter intracardiac device implantation for atrial level defects and thrombosis: a call for randomized, controlled data (letter), 1713

Peak myocardial acceleration
Tissue Doppler-derived myocardial acceleration for evaluation of left ventricular diastolic function, 1459
Peak systolic pressure gradients
Relation of weights of operatively excised stenotic aortic valves to preoperative transvalvular peak systolic pressure gradients and to calculated aortic valve areas, 1847
Pediatrics
See Children
Percutaneous coronary interventions
Achieved platelet aggregation inhibition after different antiplatelet regimens during percutaneous coronary intervention for ST-segment elevation myocardial infarction, 1187
Additive value of tirofiban administered with the high-dose bolus in the prevention of ischemic complications during high-risk coronary angioplasty, 14
Anemia is an independent predictor of mortality after percutaneous coronary intervention, 541
Comparison of Mayo Clinic risk score and American College of Cardiology/American Heart Association lesion classification in the prediction of adverse cardiovascular outcome following percutaneous coronary intervention, 357
Contrast-induced nephropathy in patients undergoing primary angioplasty for acute myocardial infarction, 1780
Coronary flow velocity reserve does not correlate with TIMI frame count in patients undergoing non-emergency percutaneous coronary intervention, 778
Cost-effectiveness of distal embolic protection for patients undergoing percutaneous intervention of saphenous vein bypass grafts, 1801
Decrease of plaque volume during percutaneous coronary intervention has a negative impact on coronary flow in acute myocardial infarction, 300
Did we enjoy the debate but forget the patient? (editorial), 775
Diminishing returns . . . and too many choices . . . the sage of pharmacologic therapy to reduce the complications of percutaneous coronary intervention (editorial), 25
Economic evaluation of bivalirudin with provisional glycoprotein IIb/IIIa inhibition versus heparin with routine glycoprotein IIb/IIIa inhibition for percutaneous coronary intervention, 1792
Economic impact of new interventional therapies (editorial), 1809
Impact of anemia in patients with acute myocardial infarction undergoing primary percutaneous coronary intervention, 547
Impact of mild or moderate chronic kidney disease on the frequency of restenosis, 1786
Influence of treatment duration with a 600-mg dose of clopidogrel prior to percutaneous coronary revascularization, 2133
Lack of clopidogrel pretreatment effect on the relative efficacy of bivalirudin with provisional glycoprotein IIb/IIIa blockade compared to heparin with routine glycoprotein IIb/IIIa blockade, 1194
Native coronary disease progression exceeds failed revascularization as cause of angina after five years in the Bypass Angioplasty Revascularization Investigation (BARI), 766
Procedural success versus clinical risk status in determining discharge of patients after primary angioplasty for acute myocardial infarction, 1400
Prognostic utility of comparative methods for assessment of ST-segment resolution after primary angioplasty for acute myocardial infarction, 1215
Radial versus femoral approach for percutaneous coronary diagnostic and interventional procedures, 349
Randomized trial of rescue angioplasty versus a conservative approach for failed fibrinolysis in ST-segment elevation myocardial infarction, 287
Rescue angioplasty (editorial), 297
Role of the endothelium in modulating neointimal formation, 733
Simple risk score for prediction of contrast-induced nephropathy after percutaneous coronary intervention, 1393
Vascular complications associated with arteriotomy closure devices in patients undergoing percutaneous coronary procedures, 1200
Percutaneous mitral annuloplasty
Acute and chronic reduction of functional mitral regurgitation in experimental heart failure by percutaneous mitral annuloplasty, 1652
Percutaneous transluminal coronary angioplasty
Additive value of tirofiban administered with the high-dose bolus in the prevention of ischemic complications during high-risk coronary angioplasty, 14
Frequency, correlates, and clinical implications of myocardial perfusion after primary angioplasty and stenting, with and without glycoprotein IIb/IIIa inhibition, in acute myocardial infarction, 305
Prognostic utility of comparative methods for assessment of ST-segment resolution after primary angioplasty for acute myocardial infarction, 1215
Randomized trial of rescue angioplasty versus a conservative approach for failed fibrinolysis in ST-segment elevation myocardial infarction, 287
Rescue angioplasty (editorial), 297
Percutaneous valve replacement and repair
Percutaneous valve replacement and repair (editorial), 1662
Pericardial valve prostheses
Durability of pericardial versus porcine aortic valves, 384
Pericarditis
Incidence and follow-up of inflammatory cardiac complications after smallpox vaccination, 201
Personality
Type D personality predicts death or myocardial infarction after bare metal stent or sirolimus-eluting stent implantation, 997
Phosphodiesterase-5 inhibitors
Differences in hemodynamic and oxygenation responses to three different phosphodiesterase-5 inhibitors in patients with pulmonary arterial hypertension, 1488
Physical inactivity
Physical inactivity causes endothelial dysfunction in healthy young mice, 1320
Plaque
Focal and multi-focal plaque macrophage distributions in patients with acute and stable presentations of coronary artery disease, 972
Plaque volume
Decrease of plaque volume during percutaneous coronary intervention has a negative impact on coronary flow in acute myocardial infarction, 300
Plasma
Association among plasma levels of monocyte chemoattractant protein-1, traditional cardiovascular risk factors, and subclinical atherosclerosis, 1812
Plasma leptin and prognosis in patients with established coronary atherosclerosis, 1819
Proteomic analysis of plasma from patients during an acute coronary syndrome, 1578
Platelets
Ability of anti-glycoprotein IIb/IIIa agents to dissolve platelet thrombi formed on a collagen surface under blood flow conditions, 316
Achieved platelet aggregation inhibition after different antiplatelet regimens during percutaneous coronary intervention for ST-segment elevation myocardial infarction, 1187
Co-administration of nitric oxide-aspirin (NCX-4016) and aspirin prevents platelet and monocyte activation and protects against gastric damage induced by aspirin in humans, 635
Comparative effects of AT1-antagonism and angiotensin-converting enzyme inhibition on markers of inflammation and platelet aggregation in patients with coronary artery disease, 362
Platelet disaggregation (editorial), 324
Platelet indexes in relation to target organ damage in high-risk hypertensive patients, 415
Polymorphic ventricular tachycardia
Mapping and ablation of polymorphic ventricular tachycardia after myocardial infarction, 1700
Porcine models
See also Animal models
Integration of cardiac magnetic resonance imaging with three-dimensional electroanatomical mapping to guide left ventricular catheter manipulation: feasibility in a porcine model of heated myocardial infarction, 2202
MRI guided transcatheter implantation of a prosthetic valve in aortic valve position: feasibility study in swine, 2247
Positron emission tomography
Noninvasive imaging, 25A
Year in cardiac imaging, 1937
Postconditioning
Postconditioning (editorial), 1111
Postmenopausal women
Flow-mediated vasodilation and the risk of developing hypertension in healthy postmenopausal women, 1636
Postprandial metabolism
Effects of prior moderate exercise on postprandial metabolism and vascular function in lean and centrally obese men, 2375
Postural tachycardia syndrome
Beat-to-beat analysis of pressure wave morphology for pre-symptomatic detection of orthostatic intolerance during head-up tilt, 1891
Potassium
Serum potassium level and risk of postoperative atrial fibrillation in patients undergoing cardiac surgery (letter), 938
Pravastatin
Effects of pravastatin on progression of glucose intolerance and cardiovascular remodeling in a type II diabetes model, 904
Pregnancy
Fallot's tetralogy and pregnancy (editorial), 181
Impact of pregnancy on the systemic right ventricle

JACC Vol. 44, No. 12, 2004
December 21, 2004:2427–48

after a Mustard operation for transposition of the great arteries, 433
Outcomes of pregnancy in women with tetralogy of Fallot, 174
Preoperative thallium scanning
Cardiac troponin after major vascular surgery, 569
Pressure overload hypertrophy
Wall stress modulates brain natriuretic production in pressure overload cardiomyopathy, 2349
Primary angioplasty
See also Angioplasty
Contrast-induced nephropathy in patients undergoing primary angioplasty for acute myocardial infarction, 1780
Procedural success versus clinical risk status in determining discharge of patients after primary angioplasty for acute myocardial infarction, 1400
Prognostic utility of comparative methods for assessment of ST-segment resolution after primary angioplasty for acute myocardial infarction, 1215
Primary pulmonary hypertension
Clinical efficacy in primary pulmonary hypertension: a randomized, placebo-controlled, double-blind, crossover study (letter), 2256
Professionalism
ACCF/AHA Consensus Conference Report on Professionalism and Ethics, 1718
Progenitor cells
Transplantation of progenitor cells and regeneration enhancement in acute myocardial infarction, 1690
Propafenone
Ibutilide added to propafenone for the conversion of atrial fibrillation and atrial flutter, 859
Prosthetic valves
Anticoagulation management of patients with prosthetic valves (letter), 1143
Choice of prosthetic heart valves: 20-year results of the Edinburgh Heart Valve trial (letter), 667
Choice of valve prostheses (editorial), 389
Durability of pericardial versus porcine aortic valves, 384
MRI guided transcatheter implantation of a prosthetic valve in aortic valve position: feasibility study in swine, 2247
Optimal intensity of vitamin K antagonists in patients with mechanical heart valves: a meta-analysis (letter), 1143
Optimal target international normalized ratio for patients with mechanical heart valves (letter), 1142
Protein kinase C
Fibroblast growth factor-1 improves cardiac functional recovery and enhances cell survival after ischemia and reperfusion, 1113
Proteomics
Heart disease leaves its mark (editorial), 1584
Proteomic analysis of plasma from patients during an acute coronary syndrome, 1578
P-selectin
Cilostazol inhibits leukocyte integrin Mac-1, leading to a potential reduction in restenosis after coronary stent implantation, 1408
Platelet indexes in relation to target organ damage in high-risk hypertensive patients, 415
P-selectin glycoprotein ligand-1
Evaluation of cardioprotective effects of recombinant soluble P-selectin glycoprotein ligand-immunoglobulin in myocardial ischemia-reperfusion injury by real-time myocardial contrast echocardiography, 887
Public access
Editor's page: open access, open archives, and enhanced public access to National Institute of Health-funded research, 2406
Publication bias
Editor's page: publication bias and journals as policemen, 1707
Pulmonary arterial pressure
Does lowering pulmonary arterial pressure eliminate severe functional tricuspid regurgitation?, 126
Pulmonary arteriovenous shunting
Pulmonary arteriovenous shunting in the normal fetal lung, 1497
Pulmonary artery band
Doppler-guided regulation of a telemetrically operated adjustable pulmonary artery banding system, 1087
Pulmonary circulation
Initial results and medium-term follow-up of stent implantation of patent ductus arteriosus in duct-dependent pulmonary circulation, 438
Pulmonary hypertension
Differences in hemodynamic and oxygenation responses to three different phosphodiesterase-5 inhibitors in patients with pulmonary arterial hypertension, 1488
Pulmonary thromboendarterectomy
Does lowering pulmonary arterial pressure eliminate severe functional tricuspid regurgitation?, 126
Pulmonary vein ablation
Left atrial tachycardia after circumferential pulmonary vein ablation for atrial fibrillation, 1071
QRS complex
Cardiac resynchronization therapy in patients with narrow QRS (letter), 2096
Electrocardiogram during sinus rhythm and tachycardia in patients with Mahaim fibers, 1626
QT interval
QT interval variability and spontaneous ventricular tachycardia or fibrillation in the Multicenter Automatic Defibrillator Implantation Trial (MADIT) II patients, 1481
Quality of life
Low cholesterol, mortality, and quality of life in old age during a 39-year follow-up, 1002
Q-wave myocardial infarction
Pathologic basis of Q-wave and non–Q-wave myocardial infarction, 554
Q-wave and non–Q-wave myocardial infarctions through the eyes of cardiac magnetic resonance imaging (editorial), 561
Race
See also African Americans
Genotypes associated with myocardial infarction risk are more common in African Americans than in European Americans, 165
Influence of age, gender, and race on the prevalence of depression in heart failure patients (letter), 2254
Working group 3: how to encourage more minorities to choose a career in cardiology (Bethesda Conference), 240
Radial artery
Radial versus femoral approach for percutaneous coronary diagnostic and interventional procedures, 349
Radiofrequency ablation
See also Ablation
Non-contact mapping to guide radiofrequency ablation of atypical right atrial flutter, 1080
Rapamycin
Oral rapamycin to inhibit restenosis after stenting of de novo coronary lesions, 1386
Rapid electrical stimulation
Rapid electrical stimulation of contraction modulates gap junction protein in neonatal rat cultured cardiomyocytes, 914
Rate control
Rate control in atrial fibrillation (letter), 2417
Reactive hyperemia
Noninvasive identification of patients with early coronary atherosclerosis by assessment of digital reactive hyperemia, 2137
Real-time three-dimensional echocardiography
Reproducibility and accuracy of echocardiographic measurements of left ventricular parameters using real-time three-dimensional echocardiography, 878
Recombinant apolipoprotein A-I_{Milano}-phospholipid complex
Rapid reversal of endothelial dysfunction in hypercholesterolemic apolipoprotein E-null mice by recombinant apolipoprotein A-I_{Milano}-phospholipid complex, 1311
Recombinant soluble P-selectin glycoprotein ligand-immunoglobulin
Evaluation of cardioprotective effects of recombinant soluble P-selectin glycoprotein ligand-immunoglobulin in myocardial ischemia-reperfusion injury by real-time myocardial contrast echocardiography, 887
Regional deformation indexes
Do regional deformation indexes reflect regional perfusion in all ischemic substrates? (editorial), 1672
Regional myocardial perfusion
Do regional deformation indexes reflect regional perfusion in all ischemic substrates? (editorial), 1672
Strain echocardiography tracks dobutamine-induced decrease in regional myocardial perfusion in nonocclusive coronary stenosis, 1664
Remodeling
Effect of granulocyte-macrophage colony-stimulating factor inducer on left ventricular remodeling after acute myocardial infarction, 1510
Effects of pravastatin on progression of glucose intolerance and cardiovascular remodeling in a type II diabetes model, 904
p38 mitogen-activated protein kinase inhibition improves cardiac function and attenuates left ventricular remodeling following myocardial infarction in the rat, 1679
Renal insufficiency
Association among renal insufficiency, pharmacotherapy, and outcomes in 6,427 patients with heart failure and coronary artery disease, 1587
Renal insufficiency as an independent predictor of mortality among women with heart failure, 1593
Reperfusion
Fibroblast growth factor-1 improves cardiac functional recovery and enhances cell survival after ischemia and reperfusion, 1113
Multiple, brief coronary occlusions during early reperfusion protect rabbit hearts by targeting cell signaling pathways, 1103
Postconditioning (editorial), 1111
Research
Acute and chronic reduction of functional mitral regurgitation in experimental heart failure by percutaneous mitral annuloplasty, 1652

Moderate and chronic hemodynamic overload of sheep atria induces reversible cellular electrophysiologic abnormalities and atrial vulnerability, 1918
Multicenter USA Amplatz patent ductus arteriosus occlusion device trial, 513
Multiple, brief coronary occlusions during early reperfusion protect rabbit hearts by targeting cell signaling pathways, 1103
Myocardial gene transfer by selective pressure-regulated retroinfusion of coronary veins, 1124
Year in health care delivery and outcomes research, 1130

Restenosis
See also Stenosis
Cilostazol inhibits leukocyte integrin Mac-1, leading to a potential reduction in restenosis after coronary stent implantation, 1408
Circulating monocytes and late in-stent restenosis (letter), 936
Impact of mild or moderate chronic kidney disease on the frequency of restenosis, 1786
Oral rapamycin to inhibit restenosis after stenting of de novo coronary lesions, 1386
Preclinical restenosis models and drug-eluting stents, 1373
Role of the endothelium in modulating neointimal formation, 733
Should we use the cutting balloon in patients with in-stent restenosis (letter), 2416

Resuscitation
Program encouraging early defibrillation results in improved in-hospital resuscitation efficacy, 846

Revascularization
Actinomycin-eluting stent for coronary revascularization, 1363
Did we enjoy the debate but forget the patient? (editorial), 775
High-dose 7-hexanoyltaxol-eluting stent with polymer sleeves for coronary revascularization, 1368
Influence of treatment duration with a 600-mg dose of clopidogrel prior to percutaneous coronary revascularization, 2133
Ischemia, revascularization, and perioperative troponin elevation after vascular surgery (editorial), 576
Native coronary disease progression exceeds failed revascularization as cause of angina after five years in the Bypass Angioplasty Revascularization Investigation (BARI), 766

Right atrial pressure
Right atrial pressure: can it be ignored when calculating fractional flow reserve and collateral flow index (letter), 2089

Right ventricle
Cardiac resynchronization therapy: a novel adjunct to the treatment and prevention of systemic right ventricular failure, 1927
Impact of pregnancy on the systemic right ventricle after a Mustard operation for transposition of the great arteries, 433

Right ventricular myocardial infarction
Hemodynamic effects of inhaled nitric oxide in right ventricular myocardial infarction and cardiogenic shock, 793

Right ventricular pacing
Left ventricular function during and after right ventricular pacing, 1883

Risk factors
Anemia as a risk factor and therapeutic target in heart failure, 959
Association among plasma levels of monocyte chemoattractant protein-1, traditional cardiovascular risk factors, and subclinical atherosclerosis, 1812
Association of gene polymorphisms with coronary artery disease in low- and high-risk subjects defined by conventional risk factors (letter), 209
Atherosclerosis of the aorta: risk factor, risk marker, or innocent bystander?, 1018
Depression as a risk factor for post-MI mortality (letter), 472
Genetic screening and risk assessment in hypertrophic cardiomyopathy, 2326
Is depression a risk factor for coronary heart disease (letter), 472
Risk factors for aortic complications in adults with coarctation of the aorta, 1641
Gender as a risk factor in young, not in old women undergoing CABG, 2413
Subclavian artery stenosis: prevalence, risk factors, and association with cardiovascular diseases, 618

Risk stratification
Comparison of Mayo Clinic risk score and American College of Cardiology/American Heart Association lesion classification in the prediction of adverse cardiovascular outcome following percutaneous coronary intervention, 357
Multidisciplinary strategies for the management of heart failure patients at high risk for admission, 810
Performance of the Thrombolysis In Myocardial Infarction Risk Index in the National Registry of Myocardial Infarction-3 and -4, 783
Procedural success versus clinical risk status in determining discharge of patients after primary angioplasty for acute myocardial infarction, 1400
Risk score to estimate the likelihood of coronary artery bypass surgery during the index hospitalization among patients with unstable angina and non–ST-segment elevation myocardial infarction, 799
Simple risk score for prediction of contrast-induced nephropathy after percutaneous coronary intervention, 1393
Thrombolysis In Myocardial Infarction Risk Index (editorial), 790

RSD1235
Randomized controlled trial of RSD1235, a novel antiarrhythmic agent, in the treatment of recent onset atrial fibrillation, 2355

RWJ-67657
p38 mitogen-activated protein kinase inhibition improves cardiac function and attenuates left ventricular remodeling following myocardial infarction in the rat, 1679

Safety
Patient safety: A(nother) call for action, 1337

Saphenous vein grafts
Clinical, angiographic, and intravascular ultrasound characteristics of early saphenous vein graft failure, 53
Cost-effectiveness of distal embolic protection for patients undergoing percutaneous intervention of saphenous vein bypass grafts, 1801
Long term patency of saphenous vein and left internal mammary artery grafts after coronary artery bypass surgery: results from a Department of Veterans Affairs Cooperative Surgery, 2149
Severe ostial saphenous vein graft disease leading to acute coronary syndromes after proximal aorto-saphenous anastomoses with the Symmetry Bypass Connector Device (letter), 1140

Screening
Proposal for contemporary screening strategies in families with hypertrophic cardiomyopathy, 2125
Serial left ventricular adaptations in world-class professional cyclists, 144

Senning operation
Predictors of sudden cardiac death after Mustard or Senning repair for transposition of the great arteries, 1093

Septal ablation
Alcohol septal ablation versus surgical septal myectomy: comparison of effects of atrioventricular conduction tissue, 2329

Septal myectomy
Alcohol septal ablation versus surgical septal myectomy: comparison of effects of atrioventricular conduction tissue, 2329

September 11, 2001
Increased incidence of life-threatening ventricular arrhythmias in implantable defibrillator patients after the World Trade Center attack, 1261
World Trade Center attack: increased frequency of defibrillator shocks for ventricular arrhythmias in patients living remotely from New York City, 1265

7-hexanoyltaxol-eluting stent
High-dose 7-hexanoyltaxol-eluting stent with polymer sleeves for coronary revascularization, 1368

Sex
Gender as a risk factor in young, not in old women undergoing CABG, 2413

Shock
Cardiac power is the strongest hemodynamic correlate of mortality in cardiogenic shock: a report from the SHOCK trial registry, 340
Hemodynamic effects of inhaled nitric oxide in right ventricular myocardial infarction and cardiogenic shock, 793
Serum levels of interleukin-10 on admission as a prognostic predictor of human fulminant myocarditis, 1292

Shunt
Moderate and chronic hemodynamic overload of sheep atria induces reversible cellular electrophysiologic abnormalities and atrial vulnerability, 1918

Shunting
Pulmonary arteriovenous shunting in the normal fetal lung, 1497

Sildenafil
Clinical efficacy in primary pulmonary hypertension: a randomized, placebo-controlled, double-blind, crossover study (letter), 2256
Effects of PDE_5 inhibition with sildenafil on pulmonary hemodynamics and diffusion capacity, exercise ventilatory efficiency and oxygen uptake kinetics, in chronic heart failure, 2339

Single nucleotide polymorphisms
Association of gene polymorphisms with coronary artery disease in low- and high-risk subjects defined by conventional risk factors (letter), 209

Single-photon emission computed tomography
See also Computed tomography
Functional significance of stenoses in coronary artery bypass grafts, 1877
Incremental prognostic value of percentage of heart

JACC Vol. 44, No. 12, 2004
December 21, 2004:2427–48

rate reserve achieved over myocardial perfusion single-photon emission computed tomography in the prediction of cardiac death and all-cause mortality, 423
Prognostic implications of atrial fibrillation in patients undergoing myocardial perfusion single-photon emission computed tomography, 1062
Quantification of infarct size, 1533
Year in cardiac imaging, 1937

Sinus rhythm
Electrocardiogram during sinus rhythm and tachycardia in patients with Mahaim fibers, 1626

Sirolimus-eluting stents
Clinical and angiographic outcome after sirolimus-eluting stent implantation in aorto-ostial lesions, 967
Type D personality predicts death or myocardial infarction after bare metal stent or sirolimus-eluting stent implantation, 997

16-detector row computed tomography
Noninvasive detection of coronary lesions using 16-detector multislice spiral computed tomography technology, 1230
Noninvasive visualization of coronary artery bypass grafts using 16-detector row computed tomography, 1224

Skeletal myoblasts
Comparison of human skeletal myoblasts and bone marrow-derived CD133$^+$ progenitors for the repair of infarcted myocardium, 458
Wanted! The best cell for cardiac regeneration (editorial), 464

Sleep apnea
Cardiac resynchronization therapy improves central sleep apnea and Cheyne-Stokes respiration in patients with chronic heart failure, 68

Sleep deprivation
Does nondipping blood pressure profile contribute to vascular inflammation during sleep deprivation? (editorial), 1529

Smallpox
Incidence and follow-up of inflammatory cardiac complications after smallpox vaccination, 201

Smoking
Global impairment of brachial, carotid, and aortic vascular function in young smokers, 2056
Smoking and caffeine have a synergistic detrimental effect on aortic stiffness and wave reflections, 1911

Soluble intercellular adhesion molecule-1
Heritability and correlates of intercellular adhesion molecule-1 in the Framingham Offspring Study, 168

Stem cells
Mobilizing cells to the injured myocardium (editorial), 1521

Stenosis
See also Restenosis
Functional significance of stenoses in coronary artery bypass grafts, 1877
Strain echocardiography tracks dobutamine-induced decrease in regional myocardial perfusion in nonocclusive coronary stenosis, 1664
Subclavian artery stenosis: prevalence, risk factors, and association with cardiovascular diseases, 618

Stents and stenting
Actinomycin-eluting stent for coronary revascularization, 1363
Cilostazol inhibits leukocyte integrin Mac-1, leading to a potential reduction in restenosis after coronary stent implantation, 1408
Clinical and angiographic outcome after sirolimus-eluting stent implantation in aorto-ostial lesions, 967
Differential mortality risk of postprocedural creatine kinase-MB elevation following successful versus unsuccessful stent procedures, 1210
Diminishing returns . . . and too many choices . . . the sage of pharmacologic therapy to reduce the complications of percutaneous coronary intervention (editorial), 25
Direct stenting versus direct stenting followed by centered beta-radiation with intravascular ultrasound-guided dosimetry and long-term anti-platelet treatment, 528
Effect of two different neuroprotection systems on microembolization during carotid artery stenting, 1966
Frequency, correlates, and clinical implications of myocardial perfusion after primary angioplasty and stenting, with and without glycoprotein IIb/IIIa inhibition, in acute myocardial infarction, 305
High-dose 7-hexanoyltaxol-eluting stent with polymer sleeves for coronary revascularization, 1368
Initial results and medium-term follow-up of stent implantation of patent ductus arteriosus in duct-dependent pulmonary circulation, 438
Intracoronary brachytherapy after stenting de novo lesions in diabetic patients, 520
Lack of efficacy of clopidogrel pre-treatment in the prevention of myocardial damage after elective stent implantation, 20
Monocyte-derived tissue factor contributes to stent thrombosis in an in vitro system, 1570
Oral rapamycin to inhibit restenosis after stenting of de novo coronary lesions, 1386
Preclinical restenosis models and drug-eluting stents, 1373
Prevention of lesion recurrence in chronic total coronary occlusions by paclitaxel-eluting stents, 2301
Primary stent supported angioplasty for treatment of below-knee critical limb ischemia and severe claudication: early and one year outcomes, 2307
Randomized trial of coronary stenting versus balloon angioplasty as a rescue intervention after failed thrombolysis in patients with acute myocardial infarction, 2073
Type D personality predicts death or myocardial infarction after bare metal stent or sirolimus-eluting stent implantation, 997
Vascular brachytherapy and coronary stenting for de novo lesions (editorial), 538

Strain rate
Do regional deformation indexes reflect regional perfusion in all ischemic substrates? (editorial), 1672

Stress-induced myocardial ischemia
Relationship between stress-induced myocardial ischemia and atherosclerosis measured by coronary calcium tomography, 923

Stroke
Comparison of medical treatment with percutaneous closure of patent foramen ovale in patients with cryptogenic stroke, 750
Stroke prevention with the angiotensin II type-1 receptor blocker candesartan in elderly patients with isolated systolic hypertension, 1175

ST-segment elevation myocardial infarction
See also Myocardial infarction
Aborted myocardial infarction in patients with ST-segment elevation, 38
ACC/AHA guidelines for the management of patients with ST-elevation myocardial infarction—executive summary, 671
Achieved platelet aggregation inhibition after different antiplatelet regimens during percutaneous coronary intervention for ST-segment elevation myocardial infarction, 1187
Association of duration of symptoms at presentation with angiographic and clinical outcomes after fibrinolytic therapy in patients with ST-segment elevation myocardial infarction, 980
B-type natriuretic peptide at presentation and prognosis in patients with ST-segment elevation myocardial infarction, 335
Performance of the Thrombolysis In Myocardial Infarction Risk Index in the National Registry of Myocardial Infarction-3 and -4, 783
Randomized trial of rescue angioplasty versus a conservative approach for failed fibrinolysis in ST-segment elevation myocardial infarction, 287

ST-segment resolution
Prognostic utility of comparative methods for assessment of ST-segment resolution after primary angioplasty for acute myocardial infarction, 1215

Subclavian artery stenosis
Subclavian artery stenosis: prevalence, risk factors, and association with cardiovascular diseases, 618

Sudden cardiac death
Brain natriuretic peptide as a predictor of sudden cardiac death in patients with myocardial infarction (letter), 1528

Sudden death
Athens, athletes, and arrhythmias: the cardiologist's dilemma (editorial), 1059
Current burden of sudden cardiac death: multiple source surveillance versus retrospective death certificate-based review in a large U.S. community, 1268
Predictors of sudden cardiac death after Mustard or Senning repair for transposition of the great arteries, 1093
Prognostic implications of atrial fibrillation in patients undergoing myocardial perfusion single-photon emission computed tomography, 1062
Prophylactic implantable cardioverter-defibrillator therapy in patients with left ventricular systolic dysfunction, 2166

Surgery
See also Ablation; Cardiac surgery; Coronary artery bypass grafting; Radiofrequency ablation
Cardiac events in patients with negative maximal versus negative submaximal dobutamine echocardiograms undergoing noncardiac surgery, 82
Cardiac troponin after major vascular surgery, 569
Case for surgery in obstructive hypertrophic cardiomyopathy, 2044
Ischemia, revascularization, and perioperative troponin elevation after vascular surgery (editorial), 576

Surgical ventricular restoration
Surgical ventricular restoration in the treatment of congestive heart failure due to post-infarction ventricular dilation, 1439

Symmetry Bypass Connector Device
Severe ostial saphenous vein graft disease leading to acute coronary syndromes after proximal

aorto-saphenous anastomoses with the Symmetry Bypass Connector Device (letter), 1140

Sympathetic nervous system
Sympathetic dysfunction in type 1 diabetes: association with impaired myocardial blood flow reserve and diastolic dysfunction, 2368

Syncope
Differences in mechanisms and outcomes of syncope in patients with coronary disease or idiopathic left ventricular dysfunction assessed by electrophysiologic testing, 594

Systemic vascular resistance
Sublingual nitroglycerin used in routine tilt testing provokes a cardiac output-mediated vasovagal response, 588

Systolic dysfunction
True uncomplicated obesity is not related to increased left ventricular mass and systolic dysfunction (letter), 2257

Systolic function
Predictors of mortality in patients with heart failure and preserved systolic function in the Digitalis Investigation Group Trial, 1025

Systolic pressure gradients
Relation of weights of operatively excised stenotic aortic valves to preoperative transvalvular peak systolic pressure gradients and to calculated aortic valve areas, 1847

Tachyarrhythmias
Impact of physical deconditioning on ventricular tachyarrhythmias in trained athletes, 1053
Prevention of inappropriate therapy in implantable cardioverter-defibrillators: results of a prospective, randomized study of tachyarrhythmia detection algorithms, 2362

Tachycardia
See also Atrial tachycardia; Ventricular tachycardia
Electrocardiogram during sinus rhythm and tachycardia in patients with Mahaim fibers, 1626
Left atrial tachycardia after circumferential pulmonary vein ablation for atrial fibrillation, 1071
Mapping and ablation of polymorphic ventricular tachycardia after myocardial infarction, 1700
QT interval variability and spontaneous ventricular tachycardia or fibrillation in the Multicenter Automatic Defibrillator Implantation Trial (MADIT) II patients, 1481

Target organ damage
Platelet indexes in relation to target organ damage in high-risk hypertensive patients, 415

Technology
Working group 6: the role of technology to enhance clinical and educational efficiency (Bethesda Conference), 256

Tedisamil
Safety and efficacy of intravenously administered tedisamil for rapid conversion of recent-onset atrial fibrillation or atrial flutter, 99

Telemetrically operated adjustable pulmonary artery banding system
Doppler-guided regulation of a telemetrically operated adjustable pulmonary artery banding system, 1087

Tetralogy of Fallot
Fallot's tetralogy and pregnancy (editorial), 181
Outcomes of pregnancy in women with tetralogy of Fallot, 174

Thallium scanning
Cardiac troponin after major vascular surgery, 569

Thiobarbituric acid reactive substances
Serum levels of thiobarbituric acid reactive substances predict cardiovascular events in patients with coronary artery disease, 1996

Three-dimensional echocardiography
Reproducibility and accuracy of echocardiographic measurements of left ventricular parameters using real-time three-dimensional echocardiography, 878

Thromboangiitis obliterans
Long-term survival and amputation risk in thromboangiitis obliterans (Buerger's disease), Cooper, Tse, Mikhail

Thromboendarterectomy
Does lowering pulmonary arterial pressure eliminate severe functional tricuspid regurgitation?, 126

Thrombolysis
Randomized trial of coronary stenting versus balloon angioplasty as a rescue intervention after failed thrombolysis in patients with acute myocardial infarction, 2073

Thrombolysis In Myocardial Infarction
Coronary flow velocity reserve does not correlate with TIMI frame count in patients undergoing non-emergency percutaneous coronary intervention, 778
Performance of the Thrombolysis In Myocardial Infarction Risk Index in the National Registry of Myocardial Infarction-3 and -4, 783
Randomized trial of coronary stenting versus balloon angioplasty as a rescue intervention after failed thrombolysis in patients with acute myocardial infarction, 2073
Thrombolysis In Myocardial Infarction Risk Index (editorial), 790

Thrombosis
Monocyte-derived tissue factor contributes to stent thrombosis in an in vitro system, 1570
Transcatheter intracardiac device implantation for atrial level defects and thrombosis: a call for randomized, controlled data (letter), 1713

Thrombus
Incidence and clinical course of thrombus formation on atrial septal defect and patent foramen ovale closure devices (letter), 1714
Intravascular ultrasound assessment of angiographic filling defects in native coronary arteries: do they always contain thrombi? (letter), Kotani, Mintz, Rai, Pappas
Risk of thrombus formation on devices used to close transcatheter atrial septal defect and patent foramen ovale (letter), 1712
Thrombus formation on intracardiac devices (letter), 1712

Tilt test
Beat-to-beat analysis of pressure wave morphology for pre-symptomatic detection of orthostatic intolerance during head-up tilt, 1891

Tilt testing
Sublingual nitroglycerin used in routine tilt testing provokes a cardiac output-mediated vasovagal response, 588

Tirofiban
Additive value of tirofiban administered with the high-dose bolus in the prevention of ischemic complications during high-risk coronary angioplasty, 14

Tissue Doppler imaging
Tissue Doppler-derived myocardial acceleration for evaluation of left ventricular diastolic function, 1459

Tissue factor
Monocyte-derived tissue factor contributes to stent thrombosis in an in vitro system, 1570

Tissue inhibitors
Matrix metalloproteinases and their tissue inhibitors in pressure-overloaded human myocardium during heart failure progression, 1609

Torasemide
Torasemide inhibits transcardiac extraction of aldosterone in patients with congestive heart failure, 2252

Training
Does it make sense to train plumbers as electricians?, 1358
Evolving challenge of chronic heart failure management, 1354
Heart failure training, 1361
Time of accelerated change in academic cardiovascular medicine, 1957

Transcutaneous low-frequency ultrasound
Therapeutic transcutaneous ultrasound: long overdue therapy (letter), 210

Transient ischemic dilation
Transient ischemic dilation (letter), 211

Transplantation
Improved outcomes of pediatric dilated cardiomyopathy with utilization of heart transplantation, 391

Transposition of the great arteries
Impact of pregnancy on the systemic right ventricle after a Mustard operation for transposition of the great arteries, 433
Predictors of sudden cardiac death after Mustard or Senning repair for transposition of the great arteries, 1093

Transvalvular peak systolic pressure gradients
Relation of weights of operatively excised stenotic aortic valves to preoperative transvalvular peak systolic pressure gradients and to calculated aortic valve areas, 1847

Tricuspid regurgitation
Does lowering pulmonary arterial pressure eliminate severe functional tricuspid regurgitation?, 126
Valvular disease, 7A

Troponin C
Severe disease expression of cardiac troponin C and T mutations in patients with idiopathic dilated cardiomyopathy, 2033

Troponin I
B-type natriuretic peptide at presentation and prognosis in patients with ST-segment elevation myocardial infarction, 335
Cardiac troponin after major vascular surgery, 569
Frequency and clinical expression of cardiac troponin I mutations in 748 consecutive families with hypertrophic cardiomyopathy, 2315
Ischemia, revascularization, and perioperative troponin elevation after vascular surgery (editorial), 576
Lack of efficacy of clopidogrel pre-treatment in the prevention of myocardial damage after elective stent implantation, 20

Troponin T
Induction and reversal of cardiac phenotype of human hypertrophic cardiomyopathy mutation cardiac troponin T-Q92 in switch on-switch off bigenic mice, 2221
Severe disease expression of cardiac troponin C and T mutations in patients with idiopathic dilated cardiomyopathy, 2033

Troponins
Troponin and outcomes (letter), 1933

Tube angulations
Identification of less-irradiating tube angulations in invasive cardiology, 1420

Type D personality
Type D personality predicts death or myocardial

infarction after bare metal stent or sirolimus-eluting stent implantation, 997
Tyrosine kinase
Fibroblast growth factor-1 improves cardiac functional recovery and enhances cell survival after ischemia and reperfusion, 1113
Ultrasonic microbubble destruction
Treatment of acute myocardial infarction by hepatocyte growth factor gene transfer, 644
Ultrasound
Direct stenting versus direct stenting followed by centered beta-radiation with intravascular ultrasound-guided dosimetry and long-term anti-platelet treatment, 528
Quantification of stenotic mitral valve area with magnetic resonance imaging and comparison with Doppler ultrasound, 133
Therapeutic transcutaneous ultrasound: long overdue therapy (letter), 210
Treatment of acute myocardial infarction by hepatocyte growth factor gene transfer, 644
Ultrasound energy improves myocardial perfusion in the presence of coronary occlusion, 1454
Unstable angina
Association of elevated B-type natriuretic peptide levels with angiographic findings among patients with unstable angina and non–ST-segment elevation myocardial infarction, 564
Risk score to estimate the likelihood of coronary artery bypass surgery during the index hospitalization among patients with unstable angina and non–ST-segment elevation myocardial infarction, 799
Vaccinations
Incidence and follow-up of inflammatory cardiac complications after smallpox vaccination, 201
Valvular heart disease
Is it ever too late to operate on the patient with valvular heart disease?, 376
Valvular disease, 7A
Vascular brachytherapy
Direct stenting versus direct stenting followed by centered beta-radiation with intravascular ultrasound-guided dosimetry and long-term anti-platelet treatment, 528
Vascular brachytherapy and coronary stenting for de novo lesions (editorial), 538
Vascular disease
Vascular disease, hypertension, and prevention, 19A
Vascular endothelial growth factor
Effects of gene delivery on collateral development in chronic hypoperfusion, 897
Measurement of circulating vascular endothelial growth factor in obese subjects (letter), 669
Vascular function
Global impairment of brachial, carotid, and aortic vascular function in young smokers, 2056
Vascular medicine
ACC/ACP/SCAI/SVMB/SVS clinical competence statement on vascular medicine and catheter-based peripheral vascular interventions, 941
Vasodilation
Novel technique to assess flow-mediated vasodilation (editorial), 1478
Vasoreactivity
Interleukin-10 serum levels and systemic endothelial vasoreactivity in patients with coronary artery disease, 44
Vasovagal response
Sublingual nitroglycerin used in routine tilt testing provokes a cardiac output-mediated vasovagal response, 588
Ventricles
See Left ventricle; Right ventricle
Ventricular arrhythmias
Ephedrine increases ventricular arrhythmias in conscious dogs after myocardial infarction, 1675
Increased incidence of life-threatening ventricular arrhythmias in implantable defibrillator patients after the World Trade Center attack, 1261
World Trade Center attack: increased frequency of defibrillator shocks for ventricular arrhythmias in patients living remotely from New York City, 1265
Ventricular dyssynchrony
Echocardiographic parameters of ventricular dyssynchrony validation in patients with heart failure using sequential biventricular pacing, 2157
Ventricular ectopy
Postexercise severe ventricular ectopy in heart failure patients (editorial), 827
Severe frequent ventricular ectopy after exercise as a predictor of death in patients with heart failure, 820
Ventricular fibrillation
QT interval variability and spontaneous ventricular tachycardia or fibrillation in the Multicenter Automatic Defibrillator Implantation Trial (MADIT) II patients, 1481
Truth about shocking ventricular tachycardia and ventricular fibrillation (editorial), 853
Ventricular tachyarrhythmias
Impact of physical deconditioning on ventricular tachyarrhythmias in trained athletes, 1053
Ventricular tachycardia
Mapping and ablation of polymorphic ventricular tachycardia after myocardial infarction, 1700
QT interval variability and spontaneous ventricular tachycardia or fibrillation in the Multicenter Automatic Defibrillator Implantation Trial (MADIT) II patients, 1481
Truth about shocking ventricular tachycardia and ventricular fibrillation (editorial), 853
Vioxx
Editor's page: Fallout from Vioxx, 2080
Vitamin K
Optimal intensity of vitamin K antagonists in patients with mechanical heart valves: a meta-analysis (letter), 1143
Optimal target international normalized ratio for patients with mechanical heart valves (letter), 1142
Wall motion abnormalities
Cardiac events in patients with negative maximal versus negative submaximal dobutamine echocardiograms undergoing noncardiac surgery, 82
Wall motion analysis
Comparative accuracy of real time myocardial contrast perfusion imaging and wall motion analysis during dobutamine stress echocardiography for the diagnosis of coronary artery disease, 2185
Wall stress
Wall stress modulates brain natriuretic production in pressure overload cardiomyopathy, 2349
Women
See also Gender
Cardiac rehabilitation after myocardial infarction in the community, 988
Diet and exercise for perimenopausal women (editorial), 586
Dietary and exercise intervention slows menopause-associated progression of subclinical atherosclerosis as measured by intima-media thickness of the carotid arteries, 579
Flow-mediated vasodilation and the risk of developing hypertension in healthy postmenopausal women, 1636
Renal insufficiency as an independent predictor of mortality among women with heart failure, 1593
Gender as a risk factor in young, not in old women undergoing CABG, 2413
Working group 2: how to encourage more women to choose a career in cardiology (Bethesda Conference), 238
World Trade Center attack
Increased incidence of life-threatening ventricular arrhythmias in implantable defibrillator patients after the World Trade Center attack, 1261
World Trade Center attack: increased frequency of defibrillator shocks for ventricular arrhythmias in patients living remotely from New York City, 1265